

JVC

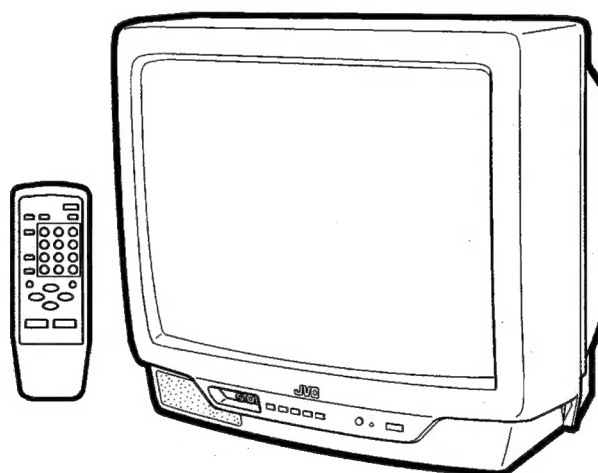
SERVICE MANUAL

COLOUR TELEVISION

BASIC CHASSIS

CL-M

AV-A14M2_(L) / AV-A14T2_(L)
AV-A14M2_(L)-HK / AV-A14T2_(L)-A
AV-A14M2_(L)-A / AV-A1432_(L)-SC
AV-A14M2_(L)U / AV-1411EE_(L)



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AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE

SPECIFICATIONS

Item		Content	
		AV-A14M2(L) AV-A14M2(L)-HK AV-A14M2(L)-A AV-A14M2(L)U	AV-A14T2(L) AV-A14T2(L)-A AV-A1432(L)-SC AV-1411EE(L)
Dimensions(W × H × D)		36.4cm × 33.4cm × 37.4cm	
Mass		9.3kg	
TV RF System		B / G, I, D / K, K1, M	B / G, I, D / K, K1
Colour System	TV Mode	PAL / SECAM / NTSC3.58 / NTSC4.43	PAL / SECAM
	VIDEO Mode	PAL / SECAM / NTSC3.58 / NTSC4.43	
Receiving Frequency	VHF (VL)	46.25MHz~168.25MHz	
	VHF (VH)	175.25MHz~463.25MHz	
	UHF	471.25MHz~863.25MHz	
	CATV	● Cable TVs of Mid (X~Z, S1~S10) Super (S11~S20) & Hyper (S21~S41) bands receivable	
Intermediate Frequency	VIF Carrier	38.0MHz	
	SIF Carrier	32.5MHz(5.5MHz) 31.5MHz (6.5MHz) 32.0MHz (6.0MHz) 33.5MHz (4.5MHz)	32.5MHz(5.5MHz) 31.5MHz (6.5MHz) 32.0MHz (6.0MHz)
Colour Sub Carrier Frequency		PAL (4.43MHz), SECAM (4.40625MHz / 4.25MHz) NTSC (3.58MHz / 4.43MHz)	
Aerial Input Terminal		75Ω Unbalanced	
Power Input	Rated Voltage	AC120~240V, 50 / 60Hz	
	Operating Voltage	AC90~260V, 50 / 60Hz	
Power Consumption		75W (Max.) / 55W (Avg.)	
Picture Tube		Visible size : 34cm measured diagonally	
High Voltage		22.5kV±1kV(at zero beam current)	
Speaker		8 cm Round type × 1	
Audio Output		2W (monaural)	
Input	Video	1Vp-p, 75Ω, RCA × 2	
	Audio	500mVrms (-4dBs), High impedance, RCA × 2	
Output	Video	1Vp-p, 75Ω, RCA × 1	
	Audio	500mVrms (-4dBs), Low impedance, RCA × 1	
Remote Control Unit		RM-C360 (Battery size : AA / R6 / UM-3 × 2)	

Design & specification are subject to change without notice.

SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
4. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\perp) side GND, the ISOLATED(NEUTRAL) : (⌚) side GND and EARTH : (\oplus) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
If above note will not be kept, a fuse or any parts will be broken.
5. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10k Ω 2W resistor to the anode button.
8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

9. Isolation Check

(Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.

(... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

This method of test requires a test equipment not generally found in the service trade.

(2) Leakage Current Check

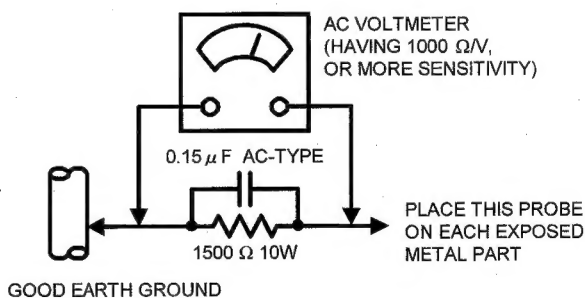
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

● Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



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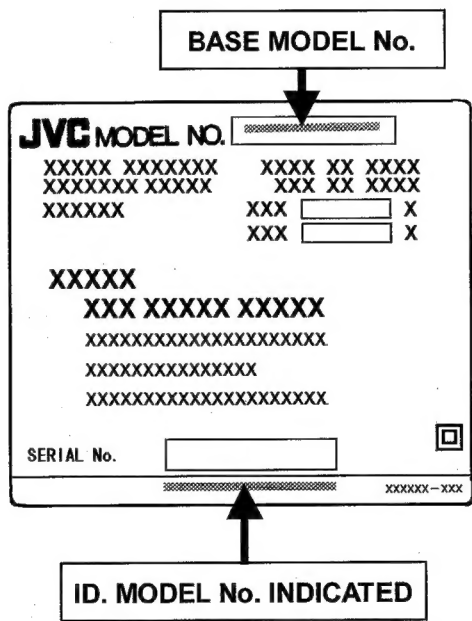
FEATURES

- New chassis design enables use of an interactive on-screen control.
- Wide range voltage (90V~260V) AC power input.
- With AUDIO / VIDEO INPUT & OUTPUT terminal.
- MUTING button can reduce the audio level to zero instantly.
- Functional remote control to operate TV set (for channel select, volume control, power ON/OFF, etc.) from a distance.
- I²C bus control utilizes single chip ICs for IF, V/C and VSM.
- By means of AUTO PROGRAM, the TV stations can be selected automatically and the TV channels can also be rearranged automatically.
- Built-in ON TIMER, RETURN +.

MODEL ID. (IDENTIFICATION)

While referring to the illustration given below, identify each model No. on the rating label affixed to the rear cover of TV set.


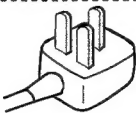
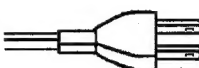

RATING LABEL




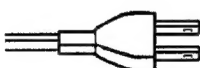
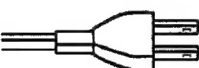

MODEL No.	INDICATED	MODEL No.	INDICATED
AV-A14M2(L)	←	AV-A14T2(L)	←
AV-A14M2(L)-HK	AV-K14M2L-HK	AV-A14T2(L)-A	←
AV-A14M2(L)-A	←	AV-A14T2(L)-SC	←
AV-A14M2(L)U	←	AV-1411EE(L)	←

MAIN DIFFERENCE LIST

[1]

△	MODEL No. Parts Name	AV-A14M2(L)	AV-A14M2(L)-HK	AV-A14M2(L)-A	AV-A14M2(L)U
	MAIN PWB ASS'Y	SCL-1208A-H2	←	←	SCL-1210A-H2
△	POWER CORD	QMP40D0-200J5	QMPN050-200-E2	QMPR010-200-E2	QMP40D0-200J5
					
△	RATING LABEL	CM2295-001	CM2295-012	CM2280-002	CM2280-003
△	INST BOOK	LCT0276-001A-H	LCT0282-001A-H	LCT0276-001A-H	LCT0280-001A-H
△	DIGEST MANUAL	LCT0277-001A-H	X	LCT0279-001A-H	LCT0281-001A-H

[2]

△	MODEL No. Parts Name	AV-A14T2(L)	AV-A14T2(L)-A	AV-A1432(L)-SC	AV-1411EE(L)
	MAIN PWB ASS'Y	SCL-1209A-H2	←	←	←
△	POWER CORD	QMP40D0-200J5	QMPR010-200-E2	QMPR060-200-JC	QMP40D0-200J5
					
	FRONT CABINET	LC10164-006A-H	←	LC10164-007A-H	←
	PACKING CASE	CP11613-059-H	←	CP11613-074-H	CP11613-076-H
△	RATING LABEL	CM22925-005	CM22880-002	CM22925-A07	CM22925-009
△	INST BOOK	LCT0276-001A-H	←	LCT0283-001A-H	LCT0285-001A-H
△	DIGEST MANUAL	LCT0278-001A-H	LCT0279-001A-H	X	X
	WARRANTY CARD	X	X	X	BT-54012-1

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Unplug the power supply cord.
2. Remove the 5 screws marked (A) and a screw marked (B) as shown in Fig.1.
3. Withdraw the REAR COVER toward you.

[CAUTION]

- When reinstalling the rear cover, carefully push it inward after inserting the MAIN PWB into the rear cover groove.

REMOVING THE MAIN PW BOARD

- After removing the rear cover.
1. Slightly raise the both sides of the MAIN PW BOARD by hand and remove the PWB STOPPER under the MAIN PW BOARD from the FRONT CABINET.
 2. Withdraw the MAIN PW BOARD backward.
(If necessary, take off the wire clamp and connectors, etc.)

REMOVING THE SPEAKER

- After removing the MAIN PW board.
1. By holding up the SPEAKER HOLDER marked (D) slightly and unlocking the claw, the SPEAKER HOLDER can be removed.
Then you can remove the SPEAKER.

CHECKING THE MAIN PW BOARD

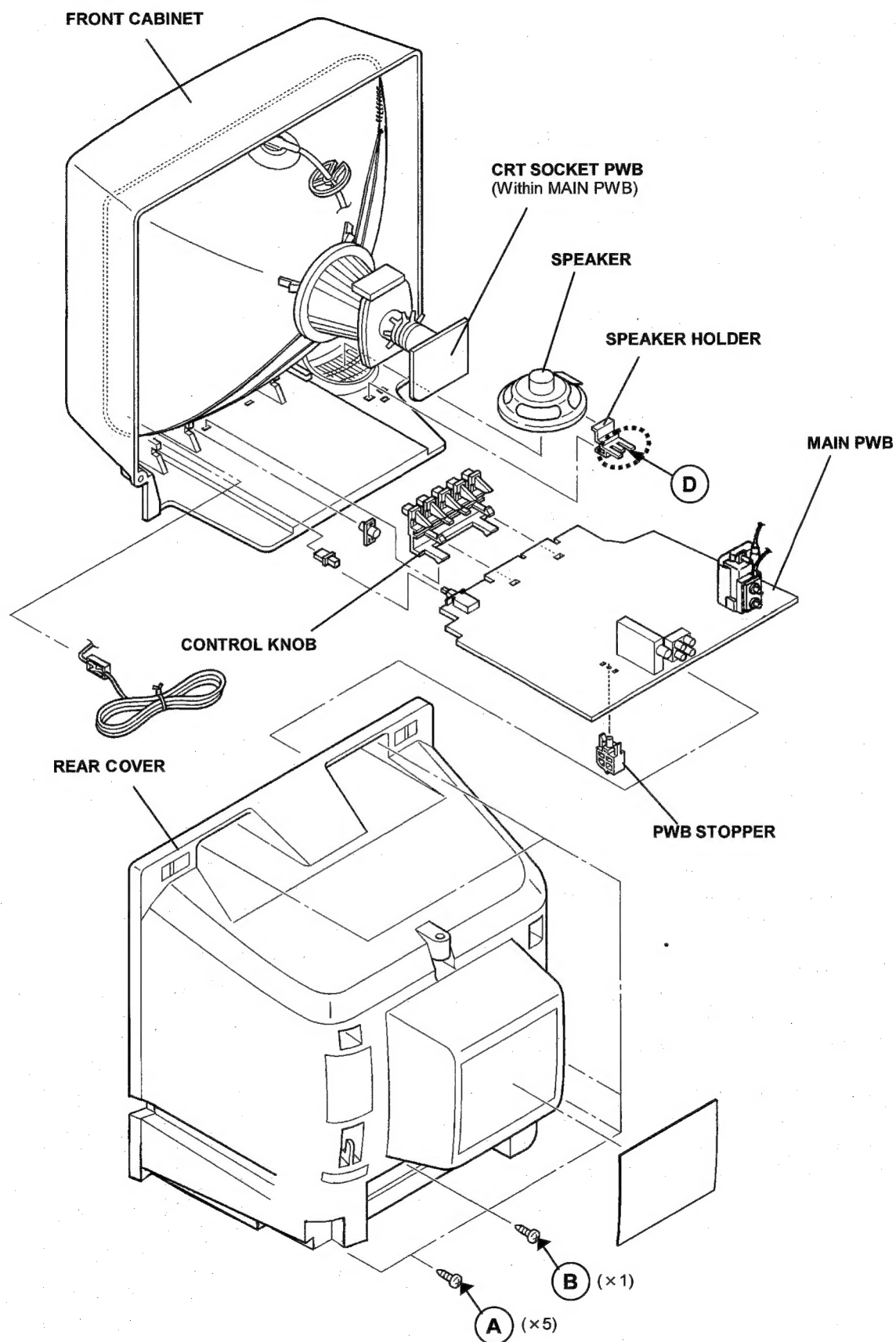
1. To check the backside of the MAIN PW Board.
 - 1) Pull out the MAIN PWB. (Refer to REMOVING THE MAIN PWB).
 - 2) Erect the chassis vertically so that you can easily check the backside of the MAIN PW Board.

[CAUTION]

- When erecting the MAIN PWB, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the CRT earth wire and other connectors are properly connected.

WIRE CLAMPING AND CABLE TYING

1. Be sure clamp the wire.
2. Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.



REPLACEMENT OF MEMORY ICs

1. MEMORY ICs

This TV uses memory ICs. In the memory ICs are memorized data for correctly operating the video and deflection circuits. When replacing memory ICs, be sure to use ICs written with the initial values of data.

2. PROCEDURE FOR REPLACING MEMORY ICs

(1) Power off

Switch the power off and unplug the power cord from the wall outlet.

(2) Replace ICs

Be sure to use memory ICs written with the initial data values.

(3) Power on

Plug the power cord into the wall outlet and switch the power on.

(4) Check and set SYSTEM CONSTANT SET:

- 1) Press the DISPLAY key and the PICTURE MODE key of the REMOTE CONTROL UNIT simultaneously.
- 2) The SERVICE MENU screen of Fig. 1 will be displayed.
- 3) While the SERVICE MENU on display, press the DISPLAY key and PICTURE MODE key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed
- 4) Check the setting value of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the MENU ∇/Δ key, and set the correct value with the MENU -/+ key.
- 5) Press the DISPLAY key twice, and return to the normal screen.

(5) Receive channel of setting

Refer to the **OPERATING INSTRUCTIONS** and set the receive channels (channels preset) as described

(6) User Setting

Check the user setting value of Table 2, and if setting value is different, set the correct value.

For setting, refer to the **OPERATING INSTRUCTIONS**.

(7) Setting of SERVICE MENU

Verify the setting items of the SERVICE MENU of Table 3, and reset where necessary.

For setting, refer to the **SERVICE ADJUSTMENTS**.

SERVICE MENU

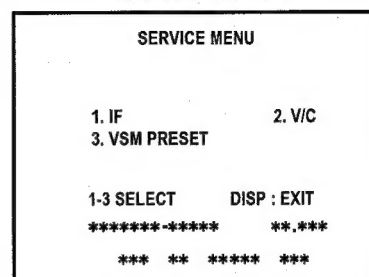
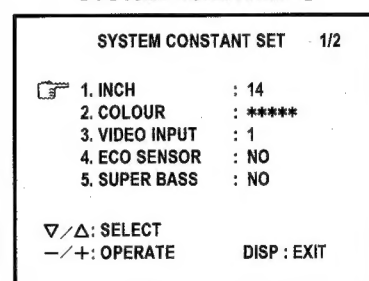


Fig. 1

SYSTEM CONSTANT- I



SYSTEM CONSTANT- II

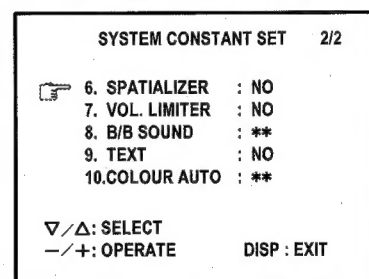
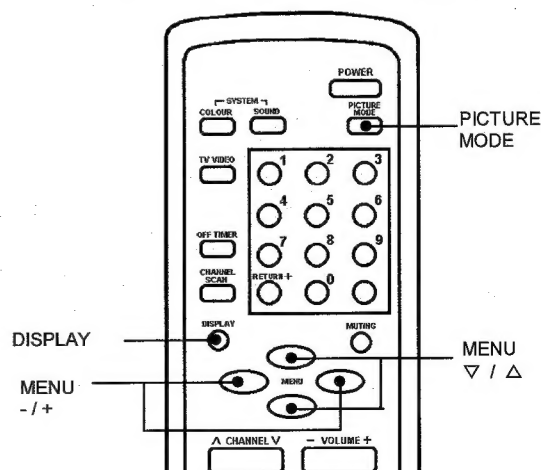


Fig. 2

NAME OF REMOTE CONTROL KEY



SETTING OF SYSTEM CONSTANT SET (Table 1)

Setting item	Setting contents	Setting value			
		AV-A14M2(L) AV-A14M2(L)-HK AV-A14M2(L)U	AV-A14M2(L)-A	AV-A14T2(L) AV-A1432(L)-SC AV-1411EE(L)	AV-A14T2(L)-A
1. INCH	➡ 14 ➡ 21 ➡ 25 ➡ 29	14	←	←	←
2. COLOUR	➡ MULTI. ➡ TRIPLE ➡ PAL	MULTI	←	TRIPLE	←
3. VIDEO INPUT	➡ YES ➡ NO	1	←	←	←
4. ECO SENSOR	➡ 1 ➡ 3	NO	←	←	←
5. SUPER BASS	➡ YES ➡ NO	NO	←	←	←
6. SPATIALIZER	➡ YES ➡ NO	NO	←	←	←
7. VOL. LIMITER	➡ YES ➡ NO	NO	←	←	←
8. B/B SOUND	➡ YES ➡ NO	NO	YES	NO	YES
9. TEXT	➡ YES ➡ NO	NO	←	←	←
10. COLOUR AUTO	➡ YES ➡ NO	NO	YES	NO	YES

USER SETTING VALUES (Table 2)

Setting item	Setting value	Setting item	Setting value
SUB POWER	ON	COLOUR SYSTEM	AUTO PAL
CHANNEL	1 POSITION	LANGUAGE	ENGLISH
VOLUME	Appropriate sound volume	CHANNEL PRESET	Refer to OPERATING INSTRUCTION
TV/VIDEO	TV		
ON SCREEN DISPLAY	POSITION NUMBER DISPLAY	VNR	OFF
SOUND SYSTEM	B / G	AUTO SHUTOFF	OFF
OFF TIMER	OFF	ON TIMER	PR1 0:00
PICTURE MODE (VSM)	BRIGHT	BLUE BACK	OFF

SERVICE MENU SETTING ITEMS (Table 3)

Service menu	Setting item	Service menu	Setting item
1. IF	1. VCO 2. DELAY POINT	2. V / C	1. CUT OFF (R / G / B) 2. DRIVE (R / B) 3. BRIGHT 4. CONT. 5. COLOUR (P / S / N) 6. TINT (N3 / N4) 7. BLACK OFFSET (R-Y / B-Y)
	3. VSM PRESET (BRIGHT/STD/SOFT)		8. SHARP 9. TEXT(RGB) CONT. 10. H. CENTER 11. V. HEIGHT 12. V. LIN. 13. V. S-CR 14. V. CENTER (Fixed) <div>Do not adjust</div>
	TINT COLOUR BRIGHT CONT. SHARP		

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SERVICE ADJUSTMENTS

BEFORE STARTING SERVICE ADJUSTMENT

1. There are 2 way of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.
2. The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
3. Make sure that connection is correctly made to AC power source.
4. Turn on the power of the TV and measuring instrument for warming up for at least 30 minutes before staring adjustment.
5. If the receive or input signal is not specified, use the most appropriate signal for adjustment.
6. Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

7. Preparation for adjustment (presetting):

Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

PICTURE MODE (VSM)	BRIGHT
VNR	OFF
TINT / COLOUR BRIGHT / CONT / SHARP	CENTER
OFF TIMER	OFF
AUTO SHUTOFF	OFF

MEASUREMENT INSTRUMENT

AND FIXTURES

1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [PAL / SECAM / NTSC]
4. Remote control unit

ADJUSTMENT ITEMS

Adjustment item	Adjustment item
B1 POWER SUPPLY	VIDEO/CHROMA (With DEF.) circuit adjustment
FOCUS adjustment	VSM PRESET setting
IF circuit adjustment	PURITY, CONVERGENCE

BASIC OPERATION OF SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings :

- 1. IF This mode adjusts the setting values of the IF circuit.
- 2. V/C This mode adjusts the setting values of the VIDEO/CHROMA circuit and DEFLECTION circuit.
- 3. VSM PRESET For setting the values of STANDARD, SOFT and BRIGHT.
(VSM : video status memory)

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3. BASIC OPERATION OF SERVICE MENU

(1) How to enter SERVICE MENU

Press the DISPLAY key and the PICTURE MODE key of the REMOTE CONTROL UNIT simultaneously.
The SERVICE MENU screen of Fig. 1 will be displayed.

(2) Selection of SUB MENU SCREEN

Press one of the keys 1 ~ 3 of the REMOTE CONTROL UNIT, and select the SUB MENU SCREEN (See Fig.2) from the SERVICE MENU.

SERVICE MENU → SUB MENU

1. IF
2. V/C
3. VSM PRESET

SERVICE MENU

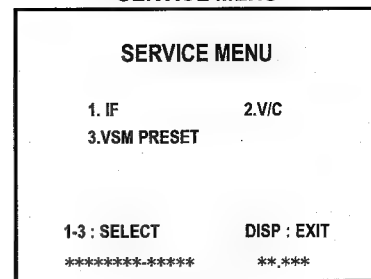


Fig. 1

SUB MENU SCREEN

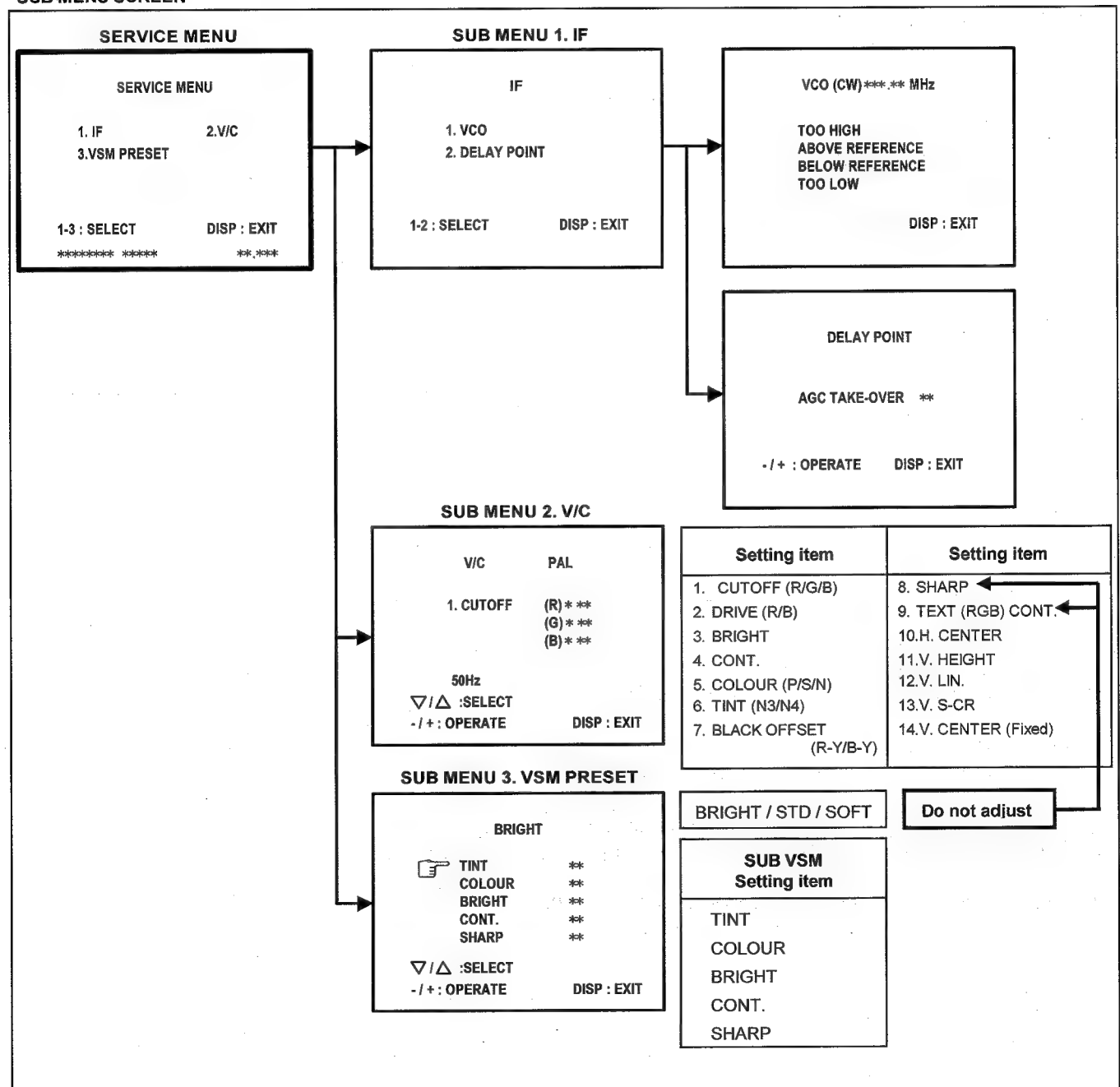


Fig. 2

(3) Method of Setting

- * Once the setting values are set, they are memorized automatically.
- * It must not adjust without signal.

1) 1. IF

[1. VCO]

- ① 1 Key Select 1. IF.
- ② 1 Key Select 1. VCO.(CW)
- ③ The VCO(CW) screen will be displayed in yellow when the AFC voltage is at a certain level and in blue when it is at other levels.
- ④ DISPLAY Key When this is pressed, you will return to the **SERVICE MENU**.

[2. DELAY POINT]

- ① 1 Key Select 1. IF.
- ② 2 Key Select 2. DELAY POINT.
- ③ MENU - / + Key Set (adjust) the setting values of the setting items.
- ④ DISPLAY Key When this is pressed twice, you will return to the **SERVICE MENU**.

2) 2. V/C and 3. VSM PRESET

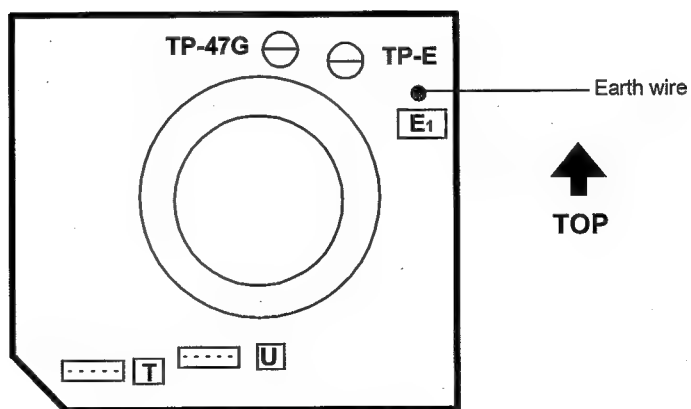
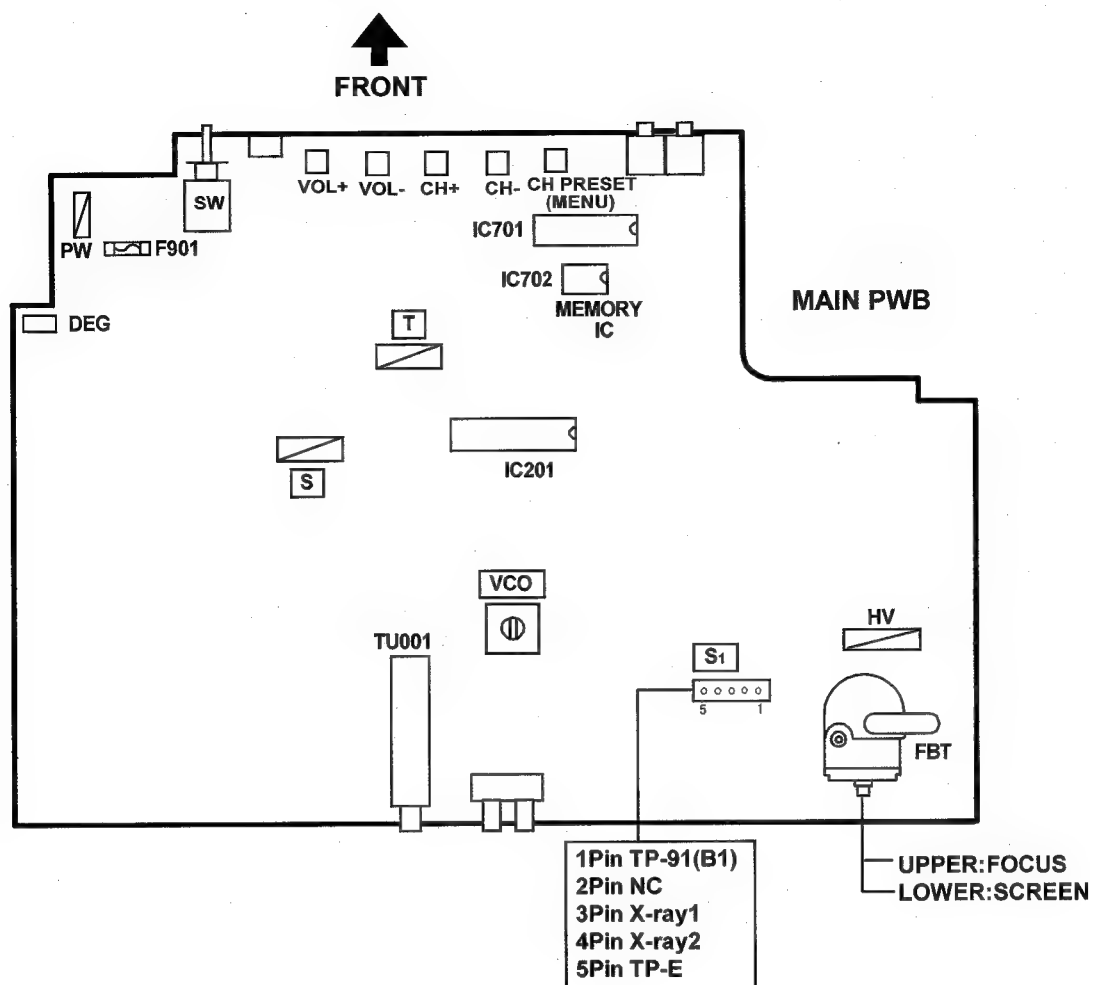
- ① 2 and 3 Keys Select one from 2. V/C and 3. VSM PRESET
- ② MENU Δ / ∇ key Select setting items.
- ③ MENU - / + Key Set (adjust) the setting values of the setting items. (Use the number keys of the REMOTE CONTROL UNIT for setting of WHITE BALANCE and BLACK OFFSET. For the setting, refer to each item concerned.)
- ④ DISPLAY Key When this is pressed, you will return to the **SERVICE MENU**.

(4) Release of SERVICE MENU

After completing the setting, return to the SERVICE MENU, then again press the DISPLAY key.

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ADJUSTMENT LOCATIONS



CRT SOCKET PWB(SOLDER SIDE)

ADJUSTMENTS

B1 POWER SUPPLY

Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 POWER SUPPLY	Signal generator DC Voltmeter	TP-91 (B1) TP-E (↓)		<ol style="list-style-type: none"> 1. Receive a whole black signal. 2. Connect a DC voltmeter to TP-91(B1) and TP-E (↓). 3. Make sure that the voltage is $DC114.5 \pm 1.0V$.

FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of FOCUS	Signal generator		FOCUS VR [In FBT]	<ol style="list-style-type: none"> 1. Receive a cross-hatch signal. 2. While watching the screen, adjust the FOCUS VR to make the vertical and horizontal lines as fine and sharp as possible. 3. Make sure that when the screen is darkened, the lines remain in good focus.

IF CIRCUIT ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of VCO(CW)	Remote control unit		VCO(CW) TRANSF.	<ul style="list-style-type: none"> ● Under normal conditions, no adjustment is required. <ol style="list-style-type: none"> 1. Select 1. IF from the SERVICE MENU. 2. Press the 1 key and select 1. VCO. 3. Select a receivable broadcast channel with the CHANNEL key. 4. Turn the core of VCO (CW) TRANSF. Unit the colour of the characters TOO HIGH displayed on the screen changes from blue to yellow. (Step 1) 5. Then slowly turn the core of VCO (CW) TRANSF to the left until the colour of the characters BELOW REFERENCE changes from blue to yellow. (Step 3) 6. Press the display key three times to return to normal screen. 7. Perform CHANNEL PRESET again, and make sure that each broadcast is being received properly.

Screen display	Step		
	1	2	3
TOO HIGH	Yellow	→ Blue	→ Blue
ABOVE REFERENCE	Blue	→ Yellow	→ Blue
BELOW REFERENCE	Blue	→ Blue	→ Yellow
TOO LOW	Blue	→	Blue

AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of DELAY POINT (AGC)	Remote control unit		DELAY POINT (AGC TAKE-OVER)	<ol style="list-style-type: none"> 1. Receive a black and white signal (colour off). 2. Select 1. IF from the SERVICE MENU. 3. Select 2. DELAY POINT by pressing the 2 key on the remote control. 4. Adjust the MENU - or + key until video noise disappears. 5. Turn to other channels and make sure that there are no irregularities.
Setting (adjustment) item		Variable range	Initial setting value	
DELAY POINT (AGC TAKE-OVER)		0~63	20	

V / C CIRCUIT ADJUSTMENT (With DEF. Adjustment)

- There are 2 modes of adjustment — 50Hz mode and 60Hz mode — depending upon the kind of signals (VERTICAL FREQUENCY 50Hz / 60Hz).
- When adjusted in 50Hz mode, 60Hz mode will be automatically set. (Link mode)

The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.
The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

Colour system Setting item		Variable range	Initial setting value							
			PAL		SECAM		NTSC 3.58		NTSC 4.43	
1. CUT OFF (R / G / B)		-128 ~ +127	+00		←		←		←	
2. DRIVE (R / B)		-128 ~ +127	+00		←		←		←	
3. BRIGHT		-64 ~ +64	-09		←		←		←	
4. CONT.		-58 ~ +28	-27		←		←		←	
5. COLOUR		-60 ~ +67	+11		+03		+04		+00	
6. TINT	TV / VIDEO	-48 ~ +79	—		—		+04 / +00		-04 / +00	
7. BLACK OFFSET (R-Y / B-Y)		-8 ~ +7	—		+00 / +00		—		—	
8. SHARP (DO NOT ADJ.)	TV / VIDEO	-32 ~ +31	-10/-09 (FIXED)		←		←		←	
9. TEXT (RGB) CONT. (DO NOT ADJ.)		-128 ~ +47	+15 (FIXED)		←		←		←	
10. H. CENTER		-16 ~ +15	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
			-05	-02	←	←	←	←	←	←
11. V. HEIGHT		-64 ~ +63	-10	-06	←	←	←	←	←	←
12. V. LIN		-16 ~ +15	-01	-03	←	←	←	←	←	←
13. V. S.CR		-64 ~ +63	-30	-15	←	←	←	←	←	←
14. V. CENTER (FIXED)		—	+00 (FIXED)	+00 (FIXED)	←	←	←	←	←	←

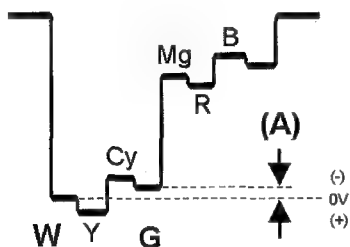
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE (Low light)	<ul style="list-style-type: none"> Signal generator Remote control unit 		1. CUT OFF (R) CUT OFF (G) CUT OFF (B) SCREEN VR (IN FBT)	<ol style="list-style-type: none"> Receive a black and white signal (colour off). From the SERVICE MENU, select 2. V/C. Select 1. CUT OFF (R), (G) and (B), with MENU ∇ / Δ key and set each value to initial setting value with 4~9 keys of the remote control unit. Press the 1 key of the remote control unit to produce a single horizontal line. Turn the SCREEN VR fully counter-clockwise, then slowly turn it clockwise to where a red, blue and green colour is faintly visible. Use keys 4~9 of the remote control unit and adjust the other 2 colours to where the single horizontal line appears white. Turn the SCREEN VR to where the single horizontal line glows faintly. Press the 2 key to return to 1. CUT OFF screen. Press the DISPLAY key twice to return to the normal screen.
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> V/C PAL 1. CUTOFF (R) * * * (G) * * * (B) * * * 50Hz Δ / ∇ : SELECT - / + : OPERATE DISP : EXIT </div> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">REMOTE CONTROL UNIT</p> </div>				
Adjustment of WHITE BALANCE (High light)	<ul style="list-style-type: none"> Signal generator Remote control unit 		2. DRIVE (R) DRIVE (B)	<ol style="list-style-type: none"> Receive a black and white signal (colour off). From the SERVICE MENU, select 2. V/C. Select 2. DRIVE (R) / (B) with MENU ∇ / Δ key, and each value to initial setting value with 4 and 7 or 6 and 9 keys of the remote control unit. Use the keys 4 and 7 or 6 and 9 to produce a white screen. Press the DISPLAY key twice to return to the normal screen.
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> V/C PAL 2. DRIVE (R) * * * (B) * * * 50Hz Δ / ∇ : SELECT - / + : OPERATE DISP : EXIT </div> </div>				

Setting (Adjustment) item	Variable range	Initial setting value
1. CUT OFF	R	-128~+127
	G	-128~+127
	B	-128~+127

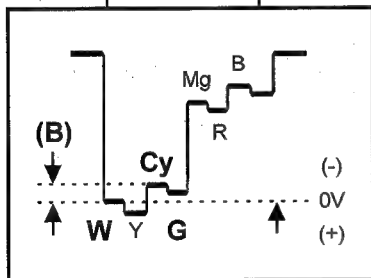
Setting (Adjustment) item	Variable range	Initial setting value
2. DRIVE	R	-128~+127
	B	-128~+127

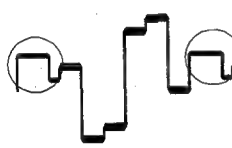
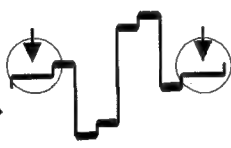
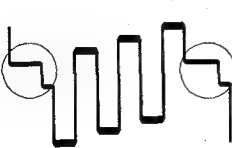
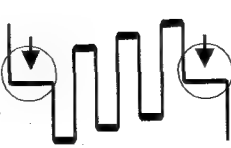
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB BRIGHT	● Remote control unit		3. BRIGHT	<ol style="list-style-type: none"> 1. Receive any broadcast. 2. Select 2. V/C from SERVICE MENU. 3. Select 3. BRIGHT with the MENU ▽ / △ key. 4. Set the initial setting value with the MENU - or + key. 5. If the brightness is not the best with the initial set value, make fine adjustment until you get the best brightness.
Adjustment of SUB CONT.	● Remote control unit		4. CONT.	<ol style="list-style-type: none"> 1. Receive any broadcast. 2. Select 2. V/C from SERVICE MENU. 3. Select 4. CONT. with the MENU ▽ / △ key. 4. Set the initial setting value with the MENU - or + key. 5. If the contrast is not the best with the initial set value, make fine adjustment until you get the best contrast.
Adjustment of SUB COLOUR I	● Remote control unit		5. COLOUR	[Method of adjustment without measuring instrument]
			PAL COLOUR	(PAL COLOUR) <ol style="list-style-type: none"> 1. Receive a PAL broadcast. 2. Select 2. V/C from the SERVICE MENU. 3. Select 5. COLOUR with the MENU ▽ / △ key. 4. Set the initial setting value for PAL COLOUR with the MENU - or + key. 5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour.
			SECAM COLOUR	(SECAM COLOUR) <ol style="list-style-type: none"> 1. Receive a SECAM broadcast. 2. Make fine adjustment of SECAM COLOUR as previously.
			NTSC 3.58 COLOUR	(NTSC 3.58 COLOUR) <ol style="list-style-type: none"> 1. Receive a NTSC 3.58MHz broadcast. (For the models without NTSC system on TV mode, input a NTSC signal in VIDEO INPUT.) 2. Make similar fine adjustment of NTSC 3.58 COLOUR as previously.
				(NTSC 4.43 COLOUR) When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR II	<ul style="list-style-type: none"> Signal generator Oscilloscope Remote control unit 	TP-47G TP-E (⬇) [CRT SOCKET PWB]	5. COLOUR	[Method of adjustment using measuring instrument]
			PAL COLOUR	(PAL COLOUR) 1. Receive a PAL full field colour bar signal (75% white). 2. Select 2. V/C from SERVICE MENU. 3. Select 5. COLOUR with the MENU ▽ / △ key. 4. Set the initial setting value of PAL COLOUR with the MENU - or + key. 5. Connect the oscilloscope between TP-47G and TP-E. 6. Adjust PAL COLOUR to bring the value of (A) in the illustration to +6V (W & G).
			SECAM COLOUR	(SECAM COLOUR) 1. Receive a SECAM full field colour bar signal (75% white). 2. Set the initial setting value of SECAM COLOUR with the MENU - or + key. 3. Adjust SECAM COLOUR to bring the value of (A) in the illustration to +7V (W & G).
			NTSC 3.58 COLOUR	(NTSC 3.58 COLOUR) 1. Receive a NTSC 3.58 full field colour bar signal (75% white). (For the models without NTSC system on TV mode, input a NTSC signal in VIDEO INPUT.) 2. Set the initial setting value of NTSC 3.58 COLOUR with the MENU - or + key. 3. Adjust NTSC 3.58 COLOUR to bring the value of (A) in the illustration to +6V (W & G).
				(NTSC 4.43 COLOUR) When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.






Item	Measuring instrument	Test point	Adjustment part	Description			
Adjustment of TINT I	● Remote control unit		6. TINT	[Method of adjustment without measuring instrument]			
			NTSC 3.58 TINT	(NTSC 3.58 TINT) 1. Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). (For the models without NTSC system on TV mode, input a NTSC signal in VIDEO INPUT.) 2. Select 2. V/C from SERVICE MENU. 3. Select 6. TINT with the MENU ▽ / △ key. 4. Set the initial setting value of NTSC 3.58 with the MENU - or + key. 5. If you cannot get the best tint with the initial setting value, make fine adjustment until you get the best tint.			
				(NTSC 4.43 COLOUR) When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.			
Adjustment of TINT II	● Signal generator ● Oscilloscope ● Remote control unit	TP-47G TP-E (↕) [CRT SOCKET PWB]	6. TINT	[Method of adjustment using measuring instrument]			
			NTSC 3.58 TINT	(NTSC 3.58 TINT) 1. Receive a NTSC 3.58 colour bar signal (full field colour bar 75% white). (For the models without NTSC system on TV mode, input a NTSC signal in VIDEO INPUT.) 2. Select 2. V/C from SERVICE MENU. 3. Select 6. TINT with the MENU ▽ / △ key. 4. Set the initial setting value of NTSC 3.58 with the MENU - or + key. 5. Connect the oscilloscope between TP-47G and TP-E. 6. Adjust NTSC 3.58 TINT to bring the value of (B) in the illustration to the values as shown given below.			
				<table><thead><tr><th>MODEL</th><th>VOLTAGE (W & Cy)</th></tr></thead><tbody><tr><td>AV-A14M2(L) AV-A14M2(L)-HK AV-A14M2(L)-A AV-A14M2(LB)</td><td>+6V</td></tr><tr><td>AV-A14T2(L) AV-A14T2(L)-A AV-A1432(L)-SC AV-1411EE(L)</td><td>+8V</td></tr></tbody></table>	MODEL	VOLTAGE (W & Cy)	AV-A14M2(L) AV-A14M2(L)-HK AV-A14M2(L)-A AV-A14M2(LB)
MODEL	VOLTAGE (W & Cy)						
AV-A14M2(L) AV-A14M2(L)-HK AV-A14M2(L)-A AV-A14M2(LB)	+6V						
AV-A14T2(L) AV-A14T2(L)-A AV-A1432(L)-SC AV-1411EE(L)	+8V						
				(NTSC 4.43 TINT) When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.			



Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of BLACK OFFSET- I (SECAM)	● Remote control unit			[Method of adjustment without measuring instrument]
		7. BLACK OFFSET (R-Y) (B-Y)	<div>1. Receive a SECAM broadcast.</div> <div>2. Select 2. V/C from SERVICE MENU.</div> <div>3. Select 7. BLACK OFFSET with the MENU ▽ / △ key.</div> <div>4. Set the initial setting value for BLACK OFFSET (R-Y) and (B-Y) with 4 and 7 or 6 and 9 keys of the remote control.</div> <div>5. If the picture is not the best with the initial setting value, make fine adjustment until you get the best picture.</div> <div>6. Press the DISPLAY key twice to return to the normal screen.</div>	
<div>REMOTE CONTROL UNIT</div> <div><div><div>R-Y(△)</div><div>R-Y(▽)</div></div><div><div>TV VIDEO</div><div>OFF TIMER</div><div>CHANNEL SCAN</div><div>RETURN +</div></div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>0</div></div><div><div>B-Y(△)</div><div>B-Y(▽)</div></div></div>				
Adjustment of BLACK OFFSET- II (SECAM)	● Signal generator ● Oscilloscope ● Remote control unit	③⑤ PIN (R-Y) ③⑥ PIN (B-Y) IC 201 OF MAIN PWB		[Method of adjustment using measuring instrument]
			7. BLACK OFFSET (R-Y) (B-Y)	<div>1. Receive a SECAM COLOUR bar signal (full field colour bar 75% white).</div> <div>2. Select 2. V/C from SERVICE MENU.</div> <div>3. Select 7. BLACK OFFSET with the △ / ▽ key.</div> <div>4. Connect the oscilloscope between ③⑤ in of IC 201 and TP-E.</div> <div>5. By using 4 and 7 keys of the remote control, adjust the BLACK OFFSET (R-Y) so that it becomes the waveform changes from (a) to (b) shown in the figure.</div> <div>6. Connect the oscilloscope between ③⑥ pin of IC 201 and TP-E.</div> <div>7. By using 6 and 9 keys of the remote control, adjust the BLACK OFFSET (B-Y) so that it becomes the waveform changes from (c) to (d) shown in the figure.</div> <div>8. If the picture is not the best with the adjusted picture, make fine adjustment until you get the best picture.</div> <div>9. Press the DISPLAY key twice to return to the normal screen.</div>
<div>[R-Y]</div> <div><div></div><div>→</div><div></div></div> <div><div>(a)</div><div>(b)</div></div>				
<div>[B-Y]</div> <div><div></div><div>→</div><div></div></div> <div><div>(c)</div><div>(d)</div></div>				

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of V. HEIGHT			11. V. HEIGHT	<p>[fr : 50Hz mode]</p> <ol style="list-style-type: none"> 1. Receive a cross-hatch signal. 2. Select 2. V/C from SERVICE MENU. 3. Select 11. V. HEIGHT with the MENU ∇ / Δ key. 4. Set the initial setting value with the MENU - / + key. 5. Adjust V. HEIGHT and make the vertical screen size 92% of the picture size with the MENU + / - keys of remote control unit.
Adjustment of H. CENTER			10. H. CENTER	<ol style="list-style-type: none"> 6. Receive a circle pattern signal. 7. Select 10. H. CENTER with the MENU Δ / ∇ key. 8. Set the initial setting value of 10. H. CENTER with the MENU - / + key. 9. Adjust 10. H. CENTER to make A=B with the MENU - / + key.
Adjustment of V.LINE & V-S.CR			12. V. LIN 13. V-S. CR	<ul style="list-style-type: none"> • When the vertical linearity has been deteriorated remarkably. Perform the following steps. <ol style="list-style-type: none"> 10. Receive a cross-hatch signal. 11. Select 12. V. LIN with the MENU ∇ / Δ key. 12. Set the initial setting value of 12. V. LIN with the MENU - / + key. 13. Select 13. V-S. CR with the MENU ∇ / Δ key. 14. Set the initial setting value of 13. V-S. CR with the MENU - / + key. 15. Adjust 12. V. LIN and 13. V-S. CR so that the spaces of each line on TOP, CENTER and BOTTOM become uniform.
				<ol style="list-style-type: none"> 16. Make sure that the adjustment is properly done on the screen of 60Hz mode. <p>[NOTE]</p> <ul style="list-style-type: none"> • Adjust to make both 50Hz & 60Hz are the same V.SIZE. • When adjust again, adjust 50Hz mode first. • When adjust in 60Hz mode, only 60Hz mode is adjust.

VSM PRESET ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description																																				
Setting of VSM PRESET	● Remote control unit		TINT COLOUR BRIGHT CONT. SHARP	(VSM PRESET) 1. Select 3. VSM PRESET from the SERVICE MENU. 2. Select BRIGHT with the PICTURE MODE key. 3. Adjust the MENU ▽ / △ and MENU - or + key to bring the set values of TINT ~ SHARP to the values shown in the table. 4. Respectively select the VSM PRESET mode for SOFT and STANDARD, and make similar adjustment as in 3 above.																																				
<table><tr><td colspan="4">BRIGHT</td></tr><tr><td></td><td>TINT</td><td>**</td><td></td></tr><tr><td></td><td>COLOUR</td><td>**</td><td></td></tr><tr><td></td><td>BRIGHT</td><td>**</td><td></td></tr><tr><td></td><td>CONT.</td><td>**</td><td></td></tr><tr><td></td><td>SHARP</td><td>**</td><td></td></tr><tr><td colspan="4">△/▽ :SELECT</td></tr><tr><td colspan="4">·/+: OPERATE</td></tr><tr><td colspan="2"></td><td colspan="2">DISP : EXIT</td></tr></table>					BRIGHT					TINT	**			COLOUR	**			BRIGHT	**			CONT.	**			SHARP	**		△/▽ :SELECT				·/+: OPERATE						DISP : EXIT	
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<table><tr><th>VSM preset mode VSM Setting item</th><th>BRIGHT</th><th>STANDARD</th><th>SOFT</th></tr><tr><td>TINT SETTING VALUE</td><td>+15</td><td>←</td><td>←</td></tr><tr><td>COLOUR SETTING VALUE</td><td>+15</td><td>←</td><td>←</td></tr><tr><td>BRIGHT SETTING VALUE</td><td>+15</td><td>←</td><td>←</td></tr><tr><td>CONT. SETTING VALUE</td><td>+30</td><td>+24</td><td>+17</td></tr><tr><td>SHARP SETTING VALUE</td><td>+15</td><td>←</td><td>+10</td></tr></table> <p>SETTING VALUE OF VSM PRESET</p>					VSM preset mode VSM Setting item	BRIGHT	STANDARD	SOFT	TINT SETTING VALUE	+15	←	←	COLOUR SETTING VALUE	+15	←	←	BRIGHT SETTING VALUE	+15	←	←	CONT. SETTING VALUE	+30	+24	+17	SHARP SETTING VALUE	+15	←	+10												
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SHARP SETTING VALUE	+15	←	+10																																					

PURITY, CONVERGENCE

PURITY ADJUSTMENT

1. Demagnetize CRT with the demagnetizer.
2. Loosen the retainer screw of the deflection yoke.
3. Remove the wedges.
4. Input a green raster signal from the signal generator, and turn the screen to green raster.
5. Move the deflection yoke backward.
6. Bring the long lug of the purity magnets on the short lug and position them horizontally. (Fig.2)
7. Adjust the gap between two lugs so that the GREEN RASTER will come into the center of the screen. (Fig.3)
8. Move the deflection yoke forward, and fix the position of the deflection yoke so that the whole screen will become green.
9. Insert the wedge to the top side of the deflection yoke so that it will not move.
10. Input a crosshatch signal.
11. Verify that the screen is horizontal.
12. Input red and blue raster signals, and make sure that purity is properly adjusted.

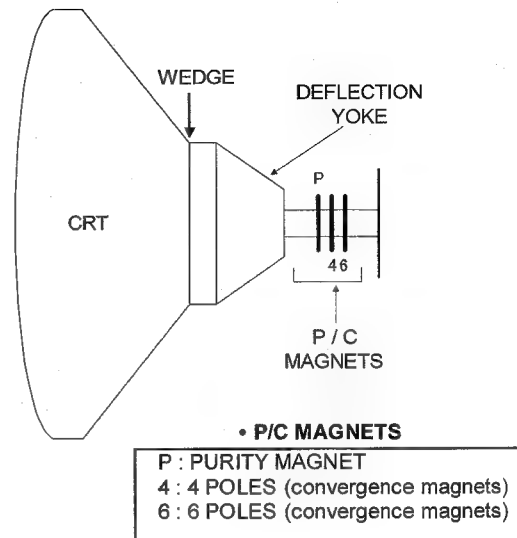


Fig.1

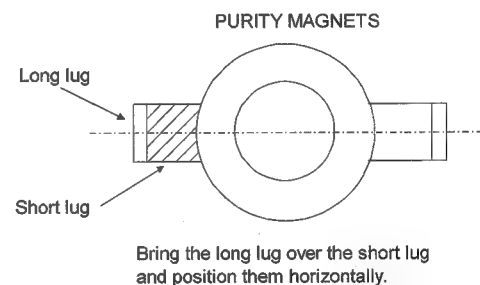


Fig.2

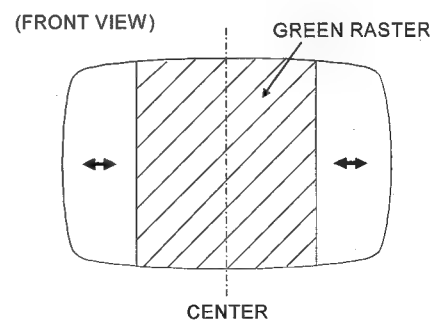


Fig.3

STATIC CONVERGENCE ADJUSTMENT

1. Input a crosshatch signal.
2. Using 4-pole convergence magnets, overlap the red and blue lines in the center of the screen (Fig.1) and turn them to magenta (red/blue).
3. Using 6-pole convergence magnets, overlap the magenta (red/blue) and green lines in the center of the screen and turn them to white.
4. Repeat 2 and 3 above, and make best convergence.

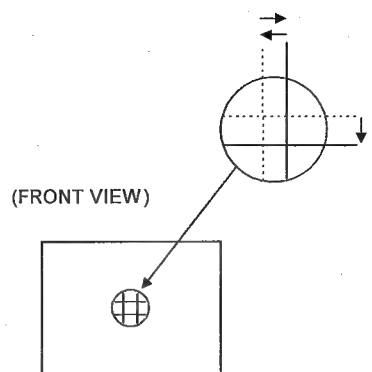


Fig.1

DYNAMIC CONVERGENCE ADJUSTMENT

1. Move the deflection yoke up and down and overlap the lines in the periphery. (Fig. 2)
2. Move the deflection yoke left to right and overlap the lines in the periphery. (Fig. 3)
3. Repeat 1 and 2 above, and make best convergence.

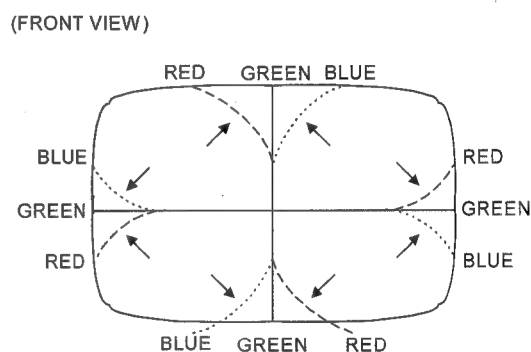


Fig.2

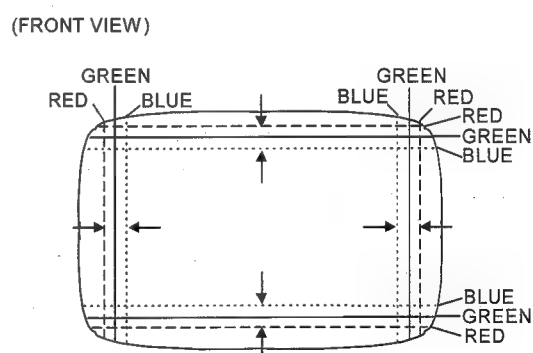


Fig.3

- After adjustment, fix the wedge at the original position.
Fasten the retainer screw of the deflection yoke.
Fix the 6 magnets with glue.

AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE

SELF CHECK FUNCTIONS

1. Outline

This model has self check functions given below. When an abnormality has been detected, the SUB POWER is turned off and the LED flashes to inform of the failure. An abnormality is detected by the signal input state of the control line connected to the microcomputer.

2. Self check items

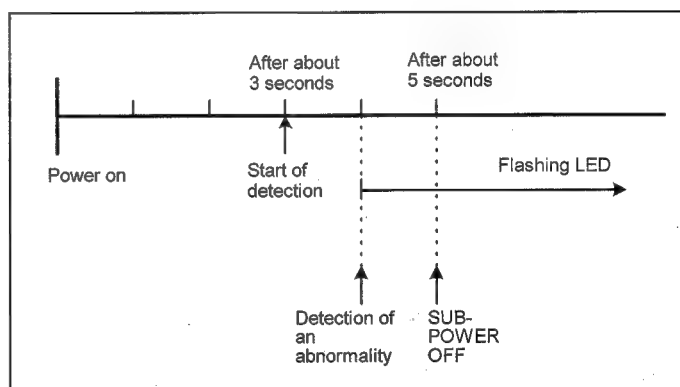
Check item	Details of detection	Method of detection	State of abnormality
Over-current protection	An over-current on the LOW B line is detected.	The main microcomputer detects the possible abnormality at 30-msec. intervals and judges the results in every 16 time. Of the 16 times, if NG is detected more than 9 times, it is judged that there is an abnormality	When an abnormality has been detected, the SUB-POWER is turned off. While the SUB-POWER is being turned off, the power key of the remote controller is not operational until the power code is taken out and put in again.
CRT NECK protection	Operation of Vertical deflection circuit.	DITTO	DITTO
X-ray protection	Operation of X-ray protection circuit	DITTO	DITTO

3. Self check indicating function

At about 3 seconds after the power is turned on, the self-check function starts.

In the case where an abnormality has been detected within the subsequent 2 seconds, the LED flashes, but the SUB-POWER is not turned off.

When an abnormality has been detected at about 5 seconds after the power is turned on, the SUB POWER is turned off immediately and the LED flashes.



[Indication by LED]

Item	LED flashing intervals	Priority of detection
① Over-current protection	At 0.25-second intervals	1
② CRT NECK protection / X-ray protection	At 0.5-second intervals	2

Note : In case of ① + ②, the item ① is indicated

[NOTE]

X-RAY : There are two different types of models with and without X-RAY PROTECTION.

LED : There are three kinds of LEDs — ON TIMER LED, POWER / ON TIMER LED and ECO LED. Each model has at least one of the LEDs depending on the models. In the models with two LEDs, they flash simultaneously. In the model with one LED, it flashes independently. (The POWER / ON TIMER LED flashes in red and green by turns.)

PARTS LIST

CAUTION

- The parts identified by the Δ symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines — in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30%	+50%	+80%	+100%
						-10%	-10%	-20%	-0%

AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE

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USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y / Model	AV-A14M2(L) AV-A14M2(L)-HK AV-A14M2(L)-A	AV-A14M2(L)U	AV-A14T2(L) AV-A14T2(L)-A AV-A1432(L)-SC AV-1411EE(L)
MAIN P.W.B	SCL-1208A-H2	SCL-1210A-H2	SCL-1209A-H2
REMOTE CONTROL UNIT	RM-C360-1H	←	←

EXPLODED VIEW PARTS LIST

AV-A14M2(L)

△ Ref. No.	Part No.	Part Name	Description	Local
△ V01	A34JXV70X	PICTURE TUBE (C)		
△ L01	CELD025-005J6	DEGAUSSING COIL		
△ DY01	CE20301-00A	DEFLECTION YOKE		
△ T1522	QQH0020-001	FLYBACK TRANSF.	(Within MAIN PWB)	
1	LC10164-005B-H	FRONT CABINET		
2	A48457-3-H	SPRING		
3	CHGB0016-0A	BRAIDED WIRE		
4	CE42153-00AJ1	WEDGE	(×3)	
5	CE40305-00B	P. C. MAGNET		
6	QAS0021-001	SPEAKER	SP01	
△ 7	CM47005-A01-H	CORD CLAMP		
△ 8	QMP40D0-200J5	POWER CORD		
10	LC30347-001C-H	CONTROL KNOB		
11	CM47921-001-H	P. W. B. STOPPER		
△ 12	LC10165-001C-H	REAR COVER		
△ 13	CM22925-001	RATING LABEL		
14	SBSF3010Z-H	TAPPING SCREW		
15	GBSF4016Z-H	TAPPING SCREW	(×5)	
17	LC30348-001A-H	POWER KNOB		
18	LC30346-001B-H	REMOCON LENS		
20	LC30345-001A-H	SP HOLDER		

AV-A14M2(L)-HK

△ Ref. No.	Part No.	Part Name	Description	Local
△ V01	A34JXV70X	PICTURE TUBE (C)		
△ L01	CELD025-005J6	DEGAUSSING COIL		
△ DY01	CE20301-00A	DEFLECTION YOKE		
△ T1522	QQH0020-001	FLYBACK TRANSF.	(Within MAIN PWB)	
1	LC10164-005B-H	FRONT CABINET		
2	A48457-3-H	SPRING		
3	CHGB0016-0A	BRAIDED WIRE		
4	CE42153-00AJ1	WEDGE	(×3)	
5	CE40305-00B	P. C. MAGNET		
6	QAS0021-001	SPEAKER	SP01	
△ 7	CM47005-A01-H	CORD CLAMP		
△ 8	QMPN050-200-E2	POWER CORD		
10	LC30347-001C-H	CONTROL KNOB		
11	CM47921-001-H	P. W. B. STOPPER		
△ 12	LC10165-001C-H	REAR COVER		
△ 13	CM22925-012	RATING LABEL		
14	SBSF3010Z-H	TAPPING SCREW		
15	GBSF4016Z-H	TAPPING SCREW	(×5)	
17	LC30348-001A-H	POWER KNOB		
18	LC30346-001B-H	REMOCON LENS		
20	LC30345-001A-H	SP HOLDER		

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AV-A14T2
AV-A1432
AV-1411EE

AV-A14M2(L)-A

△ Ref. No.	Part No.	Part Name	Description	Local
△ V01	A34JXV70X	PICTURE TUBE (C)		
△ L01	CELD025-005J6	DEGAUSSING COIL		
△ DY01	CE20301-00A	DEFLECTION YOKE		
△ T1522	QQH0020-001	FLYBACK TRANSF.	(Within MAIN PWB)	
1	LC10164-005B-H	FRONT CABINET		
2	A48457-3-H	SPRING		
3	CHGB0016-0A	BRAIDED WIRE		
4	CE42153-00AJ1	WEDGE	(×3)	
5	CE40305-00B	P. C. MAGNET		
6	QAS0021-001	SPEAKER	SP01	
△ 7	CM47005-A01-H	CORD CLAMP		
△ 8	QMPR010-200-E2	POWER CORD		
10	LC30347-001C-H	CONTROL KNOB		
11	CM47921-001-H	P. W. B. STOPPER		
△ 12	LC10165-001C-H	REAR COVER		
△ 13	CM22880-002	RATING LABEL		
14	SBSF3010Z-H	TAPPING SCREW		
15	GBSF4016Z-H	TAPPING SCREW	(×5)	
17	LC30348-001A-H	POWER KNOB		
18	LC30346-001B-H	REMOCON LENS		
20	LC30345-001A-H	SP HOLDER		

AV-A14M2(L)U

△ Ref. No.	Part No.	Part Name	Description	Local
△ V01	A34JXV70X	PICTURE TUBE (C)		
△ L01	CELD025-005J6	DEGAUSSING COIL		
△ DY01	CE20301-00A	DEFLECTION YOKE		
△ T1522	QQH0020-001	FLYBACK TRANSF.	(Within MAIN PWB)	
1	LC10164-005B-H	FRONT CABINET		
2	A48457-3-H	SPRING		
3	CHGB0016-0A	BRAIDED WIRE		
4	CE42153-00AJ1	WEDGE	(×3)	
5	CE40305-00B	P. C. MAGNET		
6	QAS0021-001	SPEAKER	SP01	
△ 7	CM47005-A01-H	CORD CLAMP		
△ 8	QMP40D0-200J5	POWER CORD		
10	LC30347-001C-H	CONTROL KNOB		
11	CM47921-001-H	P. W. B. STOPPER		
△ 12	LC10165-001C-H	REAR COVER		
△ 13	CM22880-003	RATING LABEL		
14	SBSF3010Z-H	TAPPING SCREW		
15	GBSF4016Z-H	TAPPING SCREW	(×5)	
17	LC30348-001A-H	POWER KNOB		
18	LC30346-001B-H	REMOCON LENS		
20	LC30345-001A-H	SP HOLDER		

AV-A14T2(L)

△ Ref. No.	Part No.	Part Name	Description	Local
△ V01	A34JXV70X	PICTURE TUBE(C)		
△ L01	CELD025-005J6	DEGAUSSING COIL		
△ DY01	CE20301-00A	DEFLECTION YOKE		
△ T1522	QQH0020-001	FLYBACK TRANSF.	(Within MAIN PWB)	
1	LC10164-006A-H	FRONT CABINET		
2	A48457-3-H	SPRING		
3	CHGB0016-0A	BRAIDED WIRE		
4	CE42153-00AJ1	WEDGE	(×3)	
5	CE40305-00B	P. C. MAGNET		
6	QAS0021-001	SPEAKER	SP01	
△ 7	CM47005-A01-H	CORD CLAMP		
△ 8	QMP40D0-200J5	POWER CORD		
10	LC30347-001C-H	CONTROL KNOB		
11	CM47921-001-H	P. W. B. STOPPER		
△ 12	LC10165-001C-H	REAR COVER		
△ 13	CM22925-005	RATING LABEL		
14	SBSF3010Z-H	TAPPING SCREW		
15	GBSF4016Z-H	TAPPING SCREW	(×5)	
17	LC30348-001A-H	POWER KNOB		
18	LC30346-001B-H	REMOCON LENS		
20	LC30345-001A-H	SP HOLDER		

AV-A14T2(L)-A

△ Ref. No.	Part No.	Part Name	Description	Local
△ V01	A34JXV70X	PICTURE TUBE(C)		
△ L01	CELD025-005J6	DEGAUSSING COIL		
△ DY01	CE20301-00A	DEFLECTION YOKE		
△ T1522	QQH0020-001	FLYBACK TRANSF.	(Within MAIN PWB)	
1	LC10164-006A-H	FRONT CABINET		
2	A48457-3-H	SPRING		
3	CHGB0016-0A	BRAIDED WIRE		
4	CE42153-00AJ1	WEDGE	(×3)	
5	CE40305-00B	P. C. MAGNET		
6	QAS0021-001	SPEAKER	SP01	
△ 7	CM47005-A01-H	CORD CLAMP		
△ 8	QMPR010-200-E2	POWER CORD		
10	LC30347-001C-H	CONTROL KNOB		
11	CM47921-001-H	P. W. B. STOPPER		
△ 12	LC10165-001C-H	REAR COVER		
△ 13	CM22880-002	RATING LABEL		
14	SBSF3010Z-H	TAPPING SCREW		
15	GBSF4016Z-H	TAPPING SCREW	(×5)	
17	LC30348-001A-H	POWER KNOB		
18	LC30346-001B-H	REMOCON LENS		
20	LC30345-001A-H	SP HOLDER		

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AV-A1432
AV-1411EE

AV-A1432(L)-SC

△ Ref. No.	Part No.	Part Name	Description	Local
△ V01	A34JXV70X	PICTURE TUBE (C)		
△ L01	CELD025-005J6	DEGAUSSING COIL		
△ DY01	CE20301-00A	DEFLECTION YOKE		
△ T1522	QQH0020-001	FLYBACK TRANSF.	(Within MAIN PWB)	
1	LC10164-007A-H	FRONT CABINET		
2	A48457-3-H	SPRING		
3	CHGB0016-0A	BRAIDED WIRE		
4	CE42153-00AJ1	WEDGE	(×3)	
5	CE40305-00B	P. C. MAGNET		
6	QAS0021-001	SPEAKER	SP01	
△ 7	CM47005-A01-H	CORD CLAMP		
△ 8	QMPR060-200-JC	POWER CORD		
10	LC30347-001C-H	CONTROL KNOB		
11	CM47921-001-H	P. W. B. STOPPER		
△ 12	LC10165-001C-H	REAR COVER		
△ 13	CM22925-A07	RATING LABEL		
14	SBSF3010Z-H	TAPPING SCREW		
15	GBSF4016Z-H	TAPPING SCREW	(×5)	
17	LC30348-001A-H	POWER KNOB		
18	LC30346-001B-H	REMOCON LENS		
20	LC30345-001A-H	SP HOLDER		

AV-1411EE(L)

△ Ref. No.	Part No.	Part Name	Description	Local
△ V01	A34JXV70X	PICTURE TUBE (C)		
△ L01	CELD025-005J6	DEGAUSSING COIL		
△ DY01	CE20301-00A	DEFLECTION YOKE		
△ T1522	QQH0020-001	FLYBACK TRANSF.	(Within MAIN PWB)	
1	LC10164-007A-H	FRONT CABINET		
2	A48457-3-H	SPRING		
3	CHGB0016-0A	BRAIDED WIRE		
4	CE42153-00AJ1	WEDGE	(×3)	
5	CE40305-00B	P. C. MAGNET		
6	QAS0021-001	SPEAKER	SP01	
△ 7	CM47005-A01-H	CORD CLAMP		
△ 8	QMP40D0-200J5	POWER CORD		
10	LC30347-001C-H	CONTROL KNOB		
11	CM47921-001-H	P. W. B. STOPPER		
△ 12	LC10165-001C-H	REAR COVER		
△ 13	CM22925-009	RATING LABEL		
14	SBSF3010Z-H	TAPPING SCREW		
15	GBSF4016Z-H	TAPPING SCREW	(×5)	
17	LC30348-001A-H	POWER KNOB		
18	LC30346-001B-H	REMOCON LENS		
20	LC30345-001A-H	SP HOLDER		

PRINTED WIRING BOARD PARTS LIST

AV-A14M2(L) / AV-A14M2(L)-HK / AV-A14M2(L)-A

MAIN P.W. BOARD ASS'Y (SCL-1208A-H2)

△ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
R1001-04	QRE141J-102Y	C R	1kΩ 1/4W J	
R1101	QRE141J-473Y	C R	47kΩ 1/4W J	
R1102	QRE141J-153Y	C R	15kΩ 1/4W J	
R1103	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1104	QRE141J-271Y	C R	270Ω 1/4W J	
R1105	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1106	QRE141J-122Y	C R	1.2kΩ 1/4W J	
R1107	QRE141J-680Y	C R	68Ω 1/4W J	
R1108	QRE141J-750Y	C R	75Ω 1/4W J	
R1110	QRE141J-182Y	C R	1.8kΩ 1/4W J	
R1111	QRE141J-101Y	C R	100Ω 1/4W J	
R1112	QRE141J-103Y	C R	10kΩ 1/4W J	
R1113-14	QRE141J-561Y	C R	560Ω 1/4W J	
R1116	QRE141J-104Y	C R	100kΩ 1/4W J	
R1117	QRE141J-272Y	C R	2.7kΩ 1/4W J	
R1118	QRE141J-273Y	C R	27kΩ 1/4W J	
R1119	QRE141J-224Y	C R	220kΩ 1/4W J	
R1120	QRE141J-822Y	C R	8.2kΩ 1/4W J	
R1123	QRE141J-151Y	C R	150Ω 1/4W J	
R1125	QRE141J-102Y	C R	1kΩ 1/4W J	
R1126	QRE141J-103Y	C R	10kΩ 1/4W J	
R1127	QRE141J-221Y	C R	220Ω 1/4W J	
R1128	QRE141J-821Y	C R	820Ω 1/4W J	
R1129	QRE141J-181Y	C R	180Ω 1/4W J	
R1130	QRE141J-102Y	C R	1kΩ 1/4W J	
R1131	QRE141J-271Y	C R	270Ω 1/4W J	
R1132-33	QRE141J-331Y	C R	330Ω 1/4W J	
R1135	QRE141J-224Y	C R	220kΩ 1/4W J	
R1203	QRE141J-224Y	C R	220kΩ 1/4W J	
R1204-05	QRE141J-391Y	C R	390Ω 1/4W J	
R1206	QRE141J-103Y	C R	10kΩ 1/4W J	
R1208	QRE141J-681Y	C R	680Ω 1/4W J	
R1209	QRE141J-821Y	C R	820Ω 1/4W J	
R1210	QRE141J-122Y	C R	1.2kΩ 1/4W J	
R1232	QRE141J-101Y	C R	100Ω 1/4W J	
R1233	QRE121J-101Y	C R	100Ω 1/2W J	
R1234	QRE141J-680Y	C R	68Ω 1/4W J	
R1235	QRE141J-750Y	C R	75Ω 1/4W J	
R1303	QRE141J-273Y	C R	27kΩ 1/4W J	
R1304-06	QRE141J-101Y	C R	100Ω 1/4W J	
R1307-10	QRE141J-102Y	C R	1kΩ 1/4W J	
R1311	QRE141J-333Y	C R	33kΩ 1/4W J	
R1313	QRE141J-103Y	C R	10kΩ 1/4W J	
R1314-15	QRE141J-101Y	C R	100Ω 1/4W J	
R1351-53	QRE141J-151Y	C R	150Ω 1/4W J	
R1354	QRL029J-123	OM R	12kΩ 2W J	
R1355	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1356	QRE141J-331Y	C R	330Ω 1/4W J	
R1357	QRL029J-123	OM R	12kΩ 2W J	
R1358	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1359	QRE141J-331Y	C R	330Ω 1/4W J	
R1360	QRL029J-123	OM R	12kΩ 2W J	
R1361	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1362	QRE141J-331Y	C R	330Ω 1/4W J	
R1363	QRZ0107-152Z	C R	1.5kΩ 1/2W K	
R1364	QRE141J-182Y	C R	1.8kΩ 1/4W J	
R1365	QRE141J-101Y	C R	100Ω 1/4W J	
R1366	QRZ0107-152Z	C R	1.5kΩ 1/2W K	
R1367	QRE141J-101Y	C R	100Ω 1/4W J	
R1368	QRZ0107-152Z	C R	1.5kΩ 1/2W K	
R1369	QRE141J-101Y	C R	100Ω 1/4W J	
R1372	QRE141J-152Y	C R	1.5kΩ 1/4W J	
R1403	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1422	QRE141J-472Y	C R	4.7kΩ 1/4W J	

△ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
R1423	QRE141J-221Y	C R	220Ω 1/4W J	
R1425-26	QRE141J-333Y	C R	33kΩ 1/4W J	
R1427	QRE141J-103Y	C R	10kΩ 1/4W J	
R1429	QRE141J-562Y	C R	5.6kΩ 1/4W J	
R1430	QRE141J-103Y	C R	10kΩ 1/4W J	
R1431	QRE141J-822Y	C R	8.2kΩ 1/4W J	
R1432-33	QRE121J-8R2Y	C R	8.2Ω 1/2W J	
R1440	QRE121J-331Y	C R	330Ω 1/2W J	
R1441	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1442	QRE141J-822Y	C R	8.2kΩ 1/4W J	
R1443	QRE121J-1R0Y	C R	1.0Ω 1/2W J	
R1445	QRE121J-102Y	C R	1kΩ 1/2W J	
R1450	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1451	QRE141J-103Y	C R	10kΩ 1/4W J	
R1453	QRE141J-122Y	C R	1.2kΩ 1/4W J	
R1501	QRE141J-822Y	C R	8.2kΩ 1/4W J	
R1502	QRE141J-621Y	C R	620Ω 1/4W J	
R1504	QRE141J-103Y	C R	10kΩ 1/4W J	
R1505	QRE141J-104Y	C R	100kΩ 1/4W J	
R1506	QRG01GJ-121	OM R	120Ω 1W J	
R1522	QRE141J-123Y	C R	12kΩ 1/4W J	
R1523	QRE121J-562Y	C R	5.6kΩ 1/2W J	
R1524	QRG029J-222	OM R	2.2kΩ 2W J	
R1525	QRG029J-272	OM R	2.7kΩ 2W J	
R1526	QRE121J-220Y	C R	22Ω 1/2W J	
R1529	QRG029J-121	OM R	120Ω 2W J	
R1582	QRE141J-153Y	C R	15kΩ 1/4W J	
R1583	QRE141J-123Y	C R	12kΩ 1/4W J	
R1594	QRE141J-332Y	C R	3.3kΩ 1/4W J	
R1601	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1602	QRE141J-332Y	C R	3.3kΩ 1/4W J	
R1603	QRE141J-103Y	C R	10kΩ 1/4W J	
R1604	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1605	QRE141J-221Y	C R	220Ω 1/4W J	
R1606	QRE141J-152Y	C R	1.5kΩ 1/4W J	
R1607	QRE141J-182Y	C R	1.8kΩ 1/4W J	
R1608	QRE141J-561Y	C R	560Ω 1/4W J	
R1609	QRE141J-471Y	C R	470Ω 1/4W J	
R1610	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1611	QRE141J-152Y	C R	1.5kΩ 1/4W J	
R1612	QRE141J-471Y	C R	470Ω 1/4W J	
R1615	QRE141J-181Y	C R	180Ω 1/4W J	
R1616	QRE141J-220Y	C R	22Ω 1/4W J	
R1617	QRE141J-821Y	C R	820Ω 1/4W J	
R1621	QRE141J-393Y	C R	39kΩ 1/4W J	
R1622	QRE141J-103Y	C R	10kΩ 1/4W J	
R1623	QRE141J-391Y	C R	390Ω 1/4W J	
R1624	QRE141J-101Y	C R	100Ω 1/4W J	
R1625	QRE141J-561Y	C R	560Ω 1/4W J	
R1626	QRE141J-182Y	C R	1.8kΩ 1/4W J	
R1627-28	QRE141J-561Y	C R	560Ω 1/4W J	
R1631	QRE141J-681Y	C R	680Ω 1/4W J	
R1632	QRE141J-181Y	C R	180Ω 1/4W J	
R1634	QRE141J-472Y	C R	4.7kΩ 1/4W J	
R1636	QRE141J-473Y	C R	47kΩ 1/4W J	
R1637	QRE141J-393Y	C R	39kΩ 1/4W J	
R1638	QRE141J-102Y	C R	1kΩ 1/4W J	
R1653	QRE141J-183Y	C R	18kΩ 1/4W J	
R1654	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1655	QRE141J-123Y	C R	12kΩ 1/4W J	
R1656	QRE141J-101Y	C R	100Ω 1/4W J	
R1657	QRE141J-473Y	C R	47kΩ 1/4W J	
R1658	QRE141J-103Y	C R	10kΩ 1/4W J	
R1659	QRE141J-153Y	C R	15kΩ 1/4W J	

△ Symbol No. Part No. Part Name Description Local

RESISTOR

R1660	QRE141J-391Y	C R	390Ω 1/4W J
R1661	QRE121J-4R7Y	C R	4.7Ω 1/2W J
R1662	QRE141J-102Y	C R	1kΩ 1/4W J
R1663	QRE141J-472Y	C R	4.7kΩ 1/4W J
R1664	QRX01GJ-5R6	MF R	5.6Ω 1W J
R1701	QRE141J-473Y	C R	47kΩ 1/4W J
R1702	QRB089J-682	NETW. R	6.8kΩ
R1703	QRE141J-682Y	C R	6.8kΩ 1/4W J
R1704-05	QRE141J-561Y	C R	560Ω 1/4W J
R1706	QRE141J-821Y	C R	820Ω 1/4W J
R1707-08	QRE141J-103Y	C R	10kΩ 1/4W J
R1709	QRE141J-223Y	C R	22kΩ 1/4W J
R1710	QRE141J-682Y	C R	6.8kΩ 1/4W J
R1711	QRE141J-103Y	C R	10kΩ 1/4W J
R1712	QRE141J-563Y	C R	56kΩ 1/4W J
R1713	QRE141J-223Y	C R	22kΩ 1/4W J
R1714	QRE141J-103Y	C R	10kΩ 1/4W J
R1719-21	QRE141J-562Y	C R	5.6kΩ 1/4W J
R1722	QRE141J-182Y	C R	1.8kΩ 1/4W J
R1724	QRE141J-682Y	C R	6.8kΩ 1/4W J
R1725	QRB089J-682	NETW. R	6.8kΩ
R1728	QRE141J-682Y	C R	6.8kΩ 1/4W J
R1731	QRE141J-392Y	C R	3.9kΩ 1/4W J
R1733-36	QRE141J-221Y	C R	220Ω 1/4W J
R1737	QRE141J-124Y	C R	120kΩ 1/4W J
R1738	QRE141J-683Y	C R	68kΩ 1/4W J
R1739	QRE141J-103Y	C R	10kΩ 1/4W J
R1740-44	QRE141J-221Y	C R	220Ω 1/4W J
R1746	QRE141J-473Y	C R	47kΩ 1/4W J
R1747-48	QRE141J-682Y	C R	6.8kΩ 1/4W J
R1751	QRE141J-103Y	C R	10kΩ 1/4W J
R1752	QRE141J-332Y	C R	3.3kΩ 1/4W J
R1753	QRE141J-682Y	C R	6.8kΩ 1/4W J
R1754	QRE141J-103Y	C R	10kΩ 1/4W J
R1755	QRE141J-332Y	C R	3.3kΩ 1/4W J
R1761	QRE141J-561Y	C R	560Ω 1/4W J
R1762	QRE141J-681Y	C R	680Ω 1/4W J
R1902	QRL039J-683	OM R	68kΩ 3W J
△ R1904	QRF074K-3R3	UNF R	3.3 Ω 7W K
R1921	QRE121J-681Y	C R	680Ω 1/2W J
R1923	QRN059J-R27	MP R	0.27 Ω 5W J
R1924	QRE121J-103Y	C R	10kΩ 1/2W J
R1925	QRE121J-102Y	C R	1kΩ 1/2W J
R1926	QRE121J-272Y	C R	2.7kΩ 1/2W J
R1928	QRG029J-473	OM R	47kΩ 2W J
R1929	QRE121J-332Y	C R	3.3kΩ 1/2W J
R1932	QRE121J-824Y	C R	820kΩ 1/2W J
△ R1933	QRE121J-3R9Y	C R	3.9Ω 1/2W J
R1934	QRE121J-393Y	C R	39kΩ 1/2W J
R1941	QRE121J-152Y	C R	1.5kΩ 1/2W J
R1943	QRE141J-472Y	C R	4.7kΩ 1/4W J
R1944	QRE121J-332Y	C R	3.3kΩ 1/2W J
R1946	QRE141J-153Y	C R	15kΩ 1/4W J
R1970	QRG01GJ-120	OM R	12Ω 1W J
R1971	QRE141J-223Y	C R	22kΩ 1/4W J
R1972	QRE121J-152Y	C R	1.5kΩ 1/2W J
R1973	QRL029J-390	OM R	39Ω 2W J
R1974	QRE141J-222Y	C R	2.2kΩ 1/4W J
R1975	QRE141J-123Y	C R	12kΩ 1/4W J
R1976	QRJ146J-680X	C R	68Ω 1/4W J
R1977	QRG029J-183	OM R	18kΩ 2W J
R1979	QRL029J-270	OM R	27Ω 2W J
R1980	QRE141J-821Y	C R	820Ω 1/4W J
R1981	QRE141J-222Y	C R	2.2kΩ 1/4W J
R1982	QRE141J-822Y	C R	8.2kΩ 1/4W J
R1983	QRE141J-102Y	C R	1kΩ 1/4W J

△ Symbol No. Part No. Part Name Description Local

RESISTOR

R1984	QRE141J-822Y	C R	8.2kΩ 1/4W J
△ R1991	QRZ0057-825	C R	8.2MΩ 1W J

CAPACITOR

C1001	QETN1HM-475Z	E CAP.	4.7μF 50V M
C1002	QETN1CM-108Z	E CAP.	1000μF 16V M
C1003	QETN1HM-106Z	E CAP.	10μF 50V M
C1004	QETN1CM-107Z	E CAP.	100μF 16V M
C1005-07	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1015	QCB31HK-222Z	C CAP.	2200pF 50V K
C1016	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
C1101-07	QCB31HK-472Z	C CAP.	4700pF 50V K
C1108	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1110-11	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1112	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1113	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1114	QETN1HM-474Z	E CAP.	0.47μF 50V M
C1116	QETN1HM-474Z	E CAP.	0.47μF 50V M
C1118	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1119-20	QETN1CM-476Z	E CAP.	47μF 16V M
C1121	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1122	QETN1CM-476Z	E CAP.	47μF 16V M
C1123	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1124	QETN1CM-476Z	E CAP.	47μF 16V M
C1135	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1136	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
C1201	QETN1CM-107Z	E CAP.	100μF 16V M
C1202	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1203	QETN1HM-105Z	E CAP.	1μF 50V M
C1204	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1205	QETN1HM-475Z	E CAP.	4.7μF 50V M
C1206	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1207	QETN1CM-107Z	E CAP.	100μF 16V M
C1208	QETN1HM-106Z	E CAP.	10μF 50V M
C1209	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1210	QETN1HM-106Z	E CAP.	10μF 50V M
C1212	QETN1HM-106Z	E CAP.	10μF 50V M
C1213	QENC1CM-106Z	BP E CAP.	10μF 16V M
C1231	QETN1CM-227Z	E CAP.	220μF 16V M
C1232	QETN1CM-477Z	E CAP.	470μF 16V M
C1234	QETN1HM-106Z	E CAP.	10μF 50V M
C1253	QETN1HM-106Z	E CAP.	10μF 50V M
C1301	QFLC1HJ-473Z	M CAP.	0.047μF 50V J
C1302	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1303	QDC31HJ-120Z	C CAP.	12pF 50V J
C1304-06	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1307	QETN1HM-225Z	E CAP.	2.2μF 50V M
C1308	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1309	QETN1HM-475Z	E CAP.	4.7μF 50V M
C1310	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1311	QETN1CM-107Z	E CAP.	100μF 16V M
C1312	QETN1CM-227Z	E CAP.	220μF 16V M
C1313	QETN1HM-106Z	E CAP.	10μF 50V M
C1316	QCS31HJ-101Z	C CAP.	1000pF 50V J
C1320	QCS31HJ-101Z	C CAP.	1000pF 50V J
C1351	QETN1CM-227Z	E CAP.	220μF 16V M
C1353	QCB31HK-331Z	C CAP.	330pF 50V K
C1355	QCB31HK-331Z	C CAP.	330pF 50V K
C1357	QCB31HK-391Z	C CAP.	390pF 50V K
C1359	QFH63BK-223	MM CAP.	0.022μF 1250V K
C1360	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
C1402	QEM61HK-225Z	E CAP.	2.2μF 50V K
C1405	QETN1HM-105Z	E CAP.	1μF 50V M
C1421	QFLC1HJ-102Z	M CAP.	1000pF 50V J
C1422	QFLC1HJ-182Z	M CAP.	1800pF 50V J

AV-A14M2(U) / AV-A14M2(U)HK / AV-A14M2(U)-A

△ Symbol No.	Part No.	Part Name	Description	Local
CAPACITOR				
C1423	QFLC2AJ-473Z	M CAP.	0.047μF 100V J	
C1427-28	QETN1VM-107Z	E CAP.	100μF 35V M	
C1430	QFLC2AJ-103Z	M CAP.	0.01μF 100V J	
C1433	QETN1HM-475Z	E CAP.	4.7μF 50V M	
C1435	QETN1EM-108Z	E CAP.	1000μF 25V M	
C1436	QFV71HJ-334Z	MF CAP.	0.33μF 50V J	
C1437	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1450	QETN1CM-107Z	E CAP.	100μF 16V M	
C1501	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1502	QETN1HM-105Z	E CAP.	1μF 50V M	
C1503	QETN1AM-108Z	E CAP.	1000μF 10V M	
C1504-06	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1507	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	
C1508	QETN1CM-476Z	E CAP.	47μF 16V M	
C1509-10	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1521	QCB32HK-151Z	C CAP.	150pF 500V K	
C1522	QCB32HK-102Z	C CAP.	1000pF 500V K	
C1523	QEH2CM-105Z	E CAP.	1μF 160V M	
△ C1524	QFZ0117-8601	MPP CAP.	8600pF 1.4kVH±2.5%	
△ C1527	QFZ0119-754	MPP CAP.	0.75μF 200V ±3%	
C1552	QETN1EM-108Z	E CAP.	1000μF 25V M	
C1557	QETN2EM-225Z	E CAP.	2.2μF 250V M	
C1571	QEH2CM-476	E CAP.	47μF 160V M	
C1581	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1601	QETN1HM-106Z	E CAP.	10μF 50V M	
C1602	QFLC1HJ-223Z	M CAP.	0.022μF 50V J	
C1603	QCS31HJ-470Z	C CAP.	47pF 50V J	
C1604	QDC31HJ-470Z	C CAP.	47pF 50V J	
C1606	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1607	QETN1CM-107Z	E CAP.	100μF 16V M	
C1608-12	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1631-32	QETN1HM-106Z	E CAP.	10μF 50V M	
C1651	QETN1CM-107Z	E CAP.	100μF 16V M	
C1652	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1653	QENC1HM-105Z	BP E CAP.	1μF 50V M	
C1656	QETN1EM-476Z	E CAP.	47μF 25V M	
C1657	QETN1AM-477Z	E CAP.	470μF 10V M	
C1659	QFLC1HJ-473Z	M CAP.	0.047μF 50V J	
C1661-62	QETN1HM-475Z	E CAP.	4.7μF 50V M	
C1663	QETN1EM-477Z	E CAP.	470μF 25V M	
C1701	QETN1CM-107Z	E CAP.	100μF 16V M	
C1702	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1703	QETN1CM-476Z	E CAP.	47μF 16V M	
C1704	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1705	QETN1AM-107Z	E CAP.	100μF 10V M	
C1707	QFLC1HJ-272Z	M CAP.	2700pF 50V J	
C1708	QFLC1HJ-222Z	M CAP.	2200pF 50V J	
C1709	QCS31HJ-560Z	C CAP.	56pF 50V J	
C1710	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1711	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1712	QETN1HM-106Z	E CAP.	10μF 50V M	
C1713	QCS31HJ-181Z	C CAP.	180pF 50V J	
C1714	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	
C1715	QFLC1HJ-473Z	E CAP.	0.047μF 50V J	
C1721	QETN1HM-106Z	M CAP.	10μF 50V M	
C1723-27	QCS31HJ-181Z	C CAP.	180pF 50V J	
C1729-31	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	
C1751	QETN1CM-476Z	E CAP.	47μF 16V M	
△ C1902	QFZ9040-104	MF CAP.	0.1μFAC275V M	
△ C1903	QFZ9040-473	MF CAP.	0.047μFAC275V M	
△ C1904	QCZ9054-102	C CAP.	1000pFAC250V Z	
△ C1905	QCZ9054-102	C CAP.	1000pFAC250V Z	
△ C1906	QCZ9054-102	C CAP.	1000pFAC250V Z	
△ C1907	QCZ9054-102	C CAP.	1000pFAC250V Z	
△ C1909	QEZ0199-127	E CAP.	120μF 400V M	
C1921	QCZ0122-391	C CAP.	390pF 2kV K	
C1922	QFLC1HJ-471Z	M CAP.	470pF 50V J	
C1924	QETN1VM-107Z	E CAP.	100μF 35V M	

△ Symbol No.	Part No.	Part Name	Description	Local
CAPACITOR				
C1925-26	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1929	QCB32HK-103	C CAP.	0.01μF 500V K	
C1930	QCZ0122-561	C CAP.	560pF 2kV K	
C1931	QCZ0122-391	C CAP.	390pF 2kV K	
C1941	QCZ0122-821	C CAP.	820pF 2kV K	
△ C1942	QEZ0203-107	E CAP.	100μF 160V M	
C1945	QETN1CM-108Z	E CAP.	1000μF 16V M	
C1948	QETN1EM-108Z	E CAP.	1000μF 25V M	
C1950	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1971	QETN1HM-106Z	E CAP.	10μF 50V M	
C1972	QETN1EM-227Z	E CAP.	220pF 25V M	
C1974	QETN1EM-108Z	E CAP.	1000μF 25V M	
C1975	QETN1EM-107Z	E CAP.	100μF 25V M	
C1976-77	QETN1CM-107Z	E CAP.	100μF 16V M	
C1978	QETN1AM-107Z	E CAP.	100μF 10V M	
△ C1991	QCZ9079-471	C CAP.	470pFAC250V K	
△ C1992	QCZ9079-471	C CAP.	470pFAC250V K	
△ C1993	QCZ9079-152	C CAP.	1500pFAC250V M	

TRANSFORMER

T1101	CELT001-303J3	C.WAVE TRANSF.
T1521	CE42034-001	H.DRIVE TRANSF.
△ T1522	QQH0020-001	FLYBACK TRANSF.
△ T1921	CETS096-001J2	SWITCH. TRANSF.

COIL

L1001	QQL244K-8R2Z	COIL	8.2μH K
L1104	QQL244K-150Z	COIL	15μH K
L1105	QQL244K-8R2Z	COIL	8.2μH K
L1106	QQL244K-100Z	COIL	10μH K
L1301-02	QQL244K-470Z	COIL	47μH K
L1303	QQL244K-4R7Z	COIL	4.7μH K
L1351-53	QQL244K-820Z	COIL	82μH K
L1551	QQL2018-560	HEATER CHOKE	
L1601	QQL244K-120Z	COIL	12μH K
L1701	QQL244K-5R6Z	COIL	5.6μH K
L1941	QQL42AK-820Z	COIL	82μH K
L1942	QQL42AK-560Z	COIL	56μH K

DIODE

D1001	MTZJ33A-T2	ZENER DIODE
D1101-02	1SS85-T2	SI. DIODE
D1104	1SS133-T2	SI. DIODE
D1203	1SS133-T2	SI. DIODE
D1231-32	MTZJ13B-T2	ZENER DIODE
D1301	MTZJ10C-T2	ZENER DIODE
D1421	1SS133-T2	SI. DIODE
D1423	1SR124-400A-T2	SI. DIODE
D1425	1SS133-T2	SI. DIODE
D1501	MTZJ9.1B-T2	ZENER DIODE
D1502	MTZJ5.1B-T2	ZENER DIODE
D1551	1SR124-400A-T2	SI. DIODE
D1553	RH1S-T3	SI. DIODE
D1582	RGP10J-5025-T3	SI. DIODE
D1601	MTZJ6.8A-T2	ZENER DIODE
D1602	MTZJ6.2B-T2	ZENER DIODE
D1631	MTZJ6.2B-T2	ZENER DIODE
D1633	MTZJ9.1C-T2	ZENER DIODE
D1636	MTZJ9.1C-T2	ZENER DIODE
D1652	1SS133-T2	SI. DIODE
D1701-03	1SS133-T2	SI. DIODE
D1705	1SS133-T2	SI. DIODE
D1706-09	MTZJ8.2B-T2	ZENER DIODE

△ Symbol No. Part No. Part Name Description Local

DIODE

D1739	MTZJ8.2B-T2	ZENER DIODE	
D1758	SPR-39MWF	L.E.D.	
D1759	1SS133-T2	SI. DIODE	
△ D1901	D2SBA60	BRIDGE DIODE	
D1921-22	1SR124-400A-T2	SI. DIODE	
D1923	MTZJ15A-T2	ZENER DIODE	
D1924	1SS133-T2	SI. DIODE	
D1926	RU1C-LFC4	SI. DIODE	
D1927	MTZJ6.8A-T2	ZENER DIODE	
D1929	MTZJ15A-T2	ZENER DIODE	
D1941	RU3AM-LFC4	SI. DIODE	
D1942	RU3YX-LFC4	SI. DIODE	
D1945	MTZJ6.2B-T2	ZENER DIODE	
D1971	1SR124-400A-T2	SI. DIODE	
D1981-84	1SS133-T2	SI. DIODE	
D1985	MTZJ5.6A-T2	ZENER DIODE	

TRANSISTOR

Q1101	2SC5083/L-P/-T	SI. TRANSISTOR	
Q1102	DTC124ESA-T	DIGI. TRANSISTOR	
Q1103	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1104	2SA933AS/QR/-T	SI. TRANSISTOR	
Q1105-06	DTC124ESA-T	DIGI. TRANSISTOR	
Q1107	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1108-09	2SA933AS/QR/-T	SI. TRANSISTOR	
Q1110-11	DTC124ESA-T	DIGI. TRANSISTOR	
Q1202	2SA933AS/QR/-T	SI. TRANSISTOR	
Q1231	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1351-53	2SC4722/NP/-	SI. TRANSISTOR	
Q1422-24	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1425	2SA933AS/QR/-T	SI. TRANSISTOR	
Q1521	BSN274	F.E.T.	
△ Q1522	2SD1876-YD	SI. TRANSISTOR	H. OUT
Q1601-02	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1603	DTC124ESA-T	DIGI. TRANSISTOR	
Q1604	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1605	DTC124ESA-T	DIGI. TRANSISTOR	
Q1608	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1631	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1651	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1701	2SA933AS/QR/-T	SI. TRANSISTOR	
Q1702-03	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1754-55	DTA124ESA-T	DIGI. TRANSISTOR	
Q1756	DTC124ESA-T	DIGI. TRANSISTOR	
Q1921	2SA933AS/QR/-T	SI. TRANSISTOR	
Q1941	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1942	DTC144GSA-T	DIGI. TRANSISTOR	
Q1971	2SA966/OY/-T	SI. TRANSISTOR	
Q1972	DTC144GSA-T	DIGI. TRANSISTOR	
Q1981	2SA933AS/QR/-T	SI. TRANSISTOR	

IC

IC1101	M52342SP	I.C. (MONO-ANA)	
IC1201	TB1226EN	I.C. (DIGI-OTHER)	
IC1421	LA7840	I.C. (MONO-ANA)	

△ Symbol No. Part No. Part Name Description Local

IC

IC1651	AN5265	I.C. (MONO-ANA)	
IC1701	M37212M8-050SP	I.C.	
IC1702	AT24C04-K21M2L	I.C.	(SERVICE)
IC1703	L78L05E-MA	I.C. (MONO-ANA)	
IC1751	PTC-21043SR	IFR DETECT UNIT	
△ IC1921	STR-F6653	I.C. (HYBRID)	
△ IC1941	S1854A	I.C. (MONO-ANA)	
IC1971	AN7812F	I.C. (MONO-ANA)	
IC1972	AN7809F	I.C. (MONO-ANA)	
IC1973	AN7805F	I.C. (MONO-ANA)	

OTHERS

	LC30349-001A-H	LED HOLDER	
	CM45963-003-H	SHIELD PLATE	
CF1102	QAX0358-001	CERAMIC FILTER	
CF1103	QAX0339-001	CERAMIC FILTER	
CF1104	TP55.5MH	CERAMIC FILTER	
CF1105	TP56.5MH	CERAMIC FILTER	
CF1106	TP56.0MB	CERAMIC FILTER	
CF1604	QAX0336-001	CERAMIC FILTER	
CF1606	QAX0337-001	CERAMIC FILTER	
CF1608	QAX0338-001	CERAMIC FILTER	
△ CP1942	ICP-N75-Y	I.C. PROTECT	
△ CP1944	ICP-N5-Y	I.C. PROTECT	
EF1201	CE42142-222Z	EMI FILTER	
△ F1901	QMF51E2-3R15J4	FUSE	3.15A
FC1901	CEMG002-001Z	FUSE CLIP	
△ FR1551	QRZ9017-4R7	F R	4.7 Ω 1/4W J
△ FR1552	QRZ9021-1R0	F R	1 Ω 1W J
△ FR1554	QRJ149J-150	C R	15Ω 1/4W J
J1001	CEMN075-001	PIN JACK	
J1002	CEMN065-001	PIN JACK	
J1003	CEMN065-002	PIN JACK	
K1001	CE41433-001Z	BEADS CORE	
K1201	CE41433-001Z	BEADS CORE	
K1301	CE41433-001Z	BEADS CORE	
K1701-08	CE41433-001Z	BEADS CORE	
K1921	CE41433-001Z	BEADS CORE	
K1923	CE42050-001Z	CORE	
K1941-42	CE41433-001Z	BEADS CORE	
△ LF1902	QQR0906-001	LINE FILTER	
△ PC1921	TLPT721F (D4-GR)	I.C. (PH. COUPLER)	
S1751	QSW0619-003Z	PUSH SWITCH	CH PRESET
S1752	QSW0619-003Z	PUSH SWITCH	CH -
S1753	QSW0619-003Z	PUSH SWITCH	CH +
S1754	QSW0619-003Z	PUSH SWITCH	VOL -
S1755	QSW0619-003Z	PUSH SWITCH	VOL +
△ S1901	QSP4K21-C01	PUSH SWITCH	POWER SW
SF1101	QAX0323-001	SAW FILTER	
SF1102	QAX0325-001	SAW FILTER	
△ SK1351	CE42554-001	C.R.T. SOCKET	
△ TH1901	CEKP010-001J2	W.P. THERMISTOR	
TU1001	CEEM574-B01	TUNER	
△ VA1901	ERZV10V621CS	VARISTOR	
X1301	QAX0354-001	CRYSTAL	
X1701	CST8.00MTW	CER. RESONATOR	
CF1601	SFSH4.5MCH	CERAMIC FILTER	

AV-A14M2(L) / AV-A14M2(L)HK / AV-A14M2(L)A

PRINTED WIRING BOARD PARTS LIST

AV-A14M2(L)U

MAIN P.W. BOARD ASS'Y (SCL-1210A-H2)

△ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
R1001-04	QRE141J-102Y	C R	1kΩ 1/4W J	
R1101	QRE141J-473Y	C R	47kΩ 1/4W J	
R1102	QRE141J-153Y	C R	15kΩ 1/4W J	
R1103	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1104	QRE141J-271Y	C R	270Ω 1/4W J	
R1105	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1106	QRE141J-122Y	C R	1.2kΩ 1/4W J	
R1107	QRE141J-680Y	C R	680Ω 1/4W J	
R1108	QRE141J-750Y	C R	75Ω 1/4W J	
R1110	QRE141J-182Y	C R	1.8kΩ 1/4W J	
R1111	QRE141J-101Y	C R	100Ω 1/4W J	
R1112	QRE141J-103Y	C R	10kΩ 1/4W J	
R1113-14	QRE141J-561Y	C R	560Ω 1/4W J	
R1116	QRE141J-104Y	C R	100kΩ 1/4W J	
R1117	QRE141J-272Y	C R	2.7kΩ 1/4W J	
R1118	QRE141J-273Y	C R	27kΩ 1/4W J	
R1119	QRE141J-224Y	C R	220kΩ 1/4W J	
R1120	QRE141J-822Y	C R	8.2kΩ 1/4W J	
R1123	QRE141J-151Y	C R	150Ω 1/4W J	
R1125	QRE141J-102Y	C R	1kΩ 1/4W J	
R1126	QRE141J-103Y	C R	10kΩ 1/4W J	
R1127	QRE141J-221Y	C R	220Ω 1/4W J	
R1128	QRE141J-821Y	C R	820Ω 1/4W J	
R1129	QRE141J-181Y	C R	180Ω 1/4W J	
R1130	QRE141J-102Y	C R	1kΩ 1/4W J	
R1131	QRE141J-271Y	C R	270Ω 1/4W J	
R1132-33	QRE141J-331Y	C R	330Ω 1/4W J	
R1135	QRE141J-224Y	C R	220kΩ 1/4W J	
R1203	QRE141J-224Y	C R	220kΩ 1/4W J	
R1204-05	QRE141J-391Y	C R	390Ω 1/4W J	
R1206	QRE141J-103Y	C R	10kΩ 1/4W J	
R1208	QRE141J-681Y	C R	680Ω 1/4W J	
R1209	QRE141J-821Y	C R	820Ω 1/4W J	
R1210	QRE141J-122Y	C R	1.2kΩ 1/4W J	
R1232	QRE141J-101Y	C R	100Ω 1/4W J	
R1233	QRE121J-101Y	C R	100Ω 1/2W J	
R1234	QRE141J-680Y	C R	680Ω 1/4W J	
R1235	QRE141J-750Y	C R	75Ω 1/4W J	
R1303	QRE141J-273Y	C R	27kΩ 1/4W J	
R1304-06	QRE141J-101Y	C R	100Ω 1/4W J	
R1307-10	QRE141J-102Y	C R	1kΩ 1/4W J	
R1311	QRE141J-333Y	C R	33kΩ 1/4W J	
R1313	QRE141J-103Y	C R	10kΩ 1/4W J	
R1314-15	QRE141J-101Y	C R	100Ω 1/4W J	
R1351-53	QRE141J-151Y	C R	150Ω 1/4W J	
R1354	QRL029J-123	OM R	12kΩ 2W J	
R1355	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1356	QRE141J-331Y	C R	330Ω 1/4W J	
R1357	QRL029J-123	OM R	12kΩ 2W J	
R1358	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1359	QRE141J-331Y	C R	330Ω 1/4W J	
R1360	QRL029J-123	OM R	12kΩ 2W J	
R1361	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1362	QRE141J-331Y	C R	330Ω 1/4W J	
R1363	QRZ0107-152Z	C R	1.5kΩ 1/2W K	
R1364	QRE141J-182Y	C R	1.8kΩ 1/4W J	
R1365	QRE141J-101Y	C R	100Ω 1/4W J	
R1366	QRZ0107-152Z	C R	1.5kΩ 1/2W K	
R1367	QRE141J-101Y	C R	100Ω 1/4W J	
R1368	QRZ0107-152Z	C R	1.5kΩ 1/2W K	
R1369	QRE141J-101Y	C R	100Ω 1/4W J	
R1372	QRE141J-152Y	C R	1.5kΩ 1/4W J	
R1403	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1422	QRE141J-472Y	C R	4.7kΩ 1/4W J	

△ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
R1423	QRE141J-221Y	C R	220Ω 1/4W J	
R1425-26	QRE141J-333Y	C R	33kΩ 1/4W J	
R1427	QRE141J-103Y	C R	10kΩ 1/4W J	
R1429	QRE141J-562Y	C R	5.6kΩ 1/4W J	
R1430	QRE141J-103Y	C R	10kΩ 1/4W J	
R1431	QRE141J-822Y	C R	8.2kΩ 1/4W J	
R1432-33	QRE121J-8R2Y	C R	8.2Ω 1/2W J	
R1440	QRE121J-331Y	C R	330Ω 1/2W J	
R1441	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1442	QRE141J-822Y	C R	8.2kΩ 1/4W J	
R1443	QRE121J-1R0Y	C R	1.0Ω 1/2W J	
R1445	QRE121J-102Y	C R	1kΩ 1/2W J	
R1450	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1451	QRE141J-103Y	C R	10kΩ 1/4W J	
R1453	QRE141J-122Y	C R	1.2kΩ 1/4W J	
R1501	QRE141J-822Y	C R	8.2kΩ 1/4W J	
R1502	QRE141J-621Y	C R	620Ω 1/4W J	
R1504	QRE141J-103Y	C R	10kΩ 1/4W J	
R1505	QRE141J-104Y	C R	100kΩ 1/4W J	
R1506	QRG01GJ-121	OM R	120Ω 1W J	
R1522	QRE141J-123Y	C R	12kΩ 1/4W J	
R1523	QRE121J-562Y	C R	5.6kΩ 1/2W J	
R1524	QRG029J-222	OM R	2.2kΩ 2W J	
R1525	QRG029J-272	OM R	2.7kΩ 2W J	
R1526	QRE121J-220Y	C R	22Ω 1/2W J	
R1529	QRG029J-121	OM R	120Ω 2W J	
R1582	QRE141J-153Y	C R	15kΩ 1/4W J	
R1583	QRE141J-123Y	C R	12kΩ 1/4W J	
R1591	QRE141J-273Y	C R	27kΩ 1/4W J	
R1592	QRA14CF-1582Y	MF R	15.8kΩ 1/4W F	
R1593	QRA14CF-2611Y	MF R	2.61kΩ 1/4W F	
R1594	QRE141J-332Y	C R	3.3kΩ 1/4W J	
R1601	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1602	QRE141J-332Y	C R	3.3kΩ 1/4W J	
R1603	QRE141J-103Y	C R	10kΩ 1/4W J	
R1604	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1605	QRE141J-221Y	C R	220Ω 1/4W J	
R1606	QRE141J-152Y	C R	1.5kΩ 1/4W J	
R1607	QRE141J-182Y	C R	1.8kΩ 1/4W J	
R1608	QRE141J-561Y	C R	560Ω 1/4W J	
R1609	QRE141J-471Y	C R	470Ω 1/4W J	
R1610	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1611	QRE141J-152Y	C R	1.5kΩ 1/4W J	
R1612	QRE141J-471Y	C R	470Ω 1/4W J	
R1615	QRE141J-181Y	C R	180Ω 1/4W J	
R1616	QRE141J-220Y	C R	22Ω 1/4W J	
R1617	QRE141J-821Y	C R	820Ω 1/4W J	
R1621	QRE141J-393Y	C R	39kΩ 1/4W J	
R1622	QRE141J-103Y	C R	10kΩ 1/4W J	
R1623	QRE141J-391Y	C R	390Ω 1/4W J	
R1624	QRE141J-101Y	C R	100Ω 1/4W J	
R1625	QRE141J-561Y	C R	560Ω 1/4W J	
R1626	QRE141J-182Y	C R	1.8kΩ 1/4W J	
R1627-28	QRE141J-561Y	C R	560Ω 1/4W J	
R1631	QRE141J-681Y	C R	680Ω 1/4W J	
R1632	QRE141J-181Y	C R	180Ω 1/4W J	
R1634	QRE141J-472Y	C R	4.7kΩ 1/4W J	
R1636	QRE141J-473Y	C R	47kΩ 1/4W J	
R1637	QRE141J-393Y	C R	39kΩ 1/4W J	
R1638	QRE141J-102Y	C R	1kΩ 1/4W J	
R1653	QRE141J-183Y	C R	18kΩ 1/4W J	
R1654	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1655	QRE141J-123Y	C R	12kΩ 1/4W J	
R1656	QRE141J-101Y	C R	100Ω 1/4W J	

△ Symbol No. Part No. Part Name Description Local

RESISTOR

R1657	QRE141J-473Y	C R	47kΩ 1/4W J
R1658	QRE141J-103Y	C R	10kΩ 1/4W J
R1659	QRE141J-153Y	C R	15kΩ 1/4W J
R1660	QRE141J-391Y	C R	390Ω 1/4W J
R1661	QRE121J-4R7Y	C R	4.7Ω 1/2W J
R1662	QRE141J-102Y	C R	1kΩ 1/4W J
R1663	QRE141J-472Y	C R	4.7kΩ 1/4W J
R1664	QRX01GJ-5R6	MF R	5.6Ω 1W J
R1701	QRE141J-473Y	C R	47kΩ 1/4W J
R1702	QRB089J-682	NETW. R	6.8kΩ
R1703	QRE141J-682Y	C R	6.8kΩ 1/4W J
R1704-05	QRE141J-561Y	C R	560Ω 1/4W J
R1706	QRE141J-821Y	C R	820Ω 1/4W J
R1707-08	QRE141J-103Y	C R	10kΩ 1/4W J
R1709	QRE141J-223Y	C R	22kΩ 1/4W J
R1710	QRE141J-682Y	C R	6.8kΩ 1/4W J
R1711	QRE141J-103Y	C R	10kΩ 1/4W J
R1712	QRE141J-563Y	C R	56kΩ 1/4W J
R1713	QRE141J-223Y	C R	22kΩ 1/4W J
R1714	QRE141J-103Y	C R	10kΩ 1/4W J
R1719-21	QRE141J-562Y	C R	5.6kΩ 1/4W J
R1722	QRE141J-182Y	C R	1.8kΩ 1/4W J
R1724	QRE141J-682Y	C R	6.8kΩ 1/4W J
R1725	QRB089J-682	NETW. R	6.8kΩ
R1728	QRE141J-682Y	C R	6.8kΩ 1/4W J
R1731	QRE141J-392Y	C R	3.9kΩ 1/4W J
R1733-36	QRE141J-221Y	C R	220Ω 1/4W J
R1737	QRE141J-124Y	C R	120kΩ 1/4W J
R1738	QRE141J-683Y	C R	68kΩ 1/4W J
R1739	QRE141J-103Y	C R	10kΩ 1/4W J
R1740-44	QRE141J-221Y	C R	220Ω 1/4W J
R1746	QRE141J-473Y	C R	47kΩ 1/4W J
R1747-48	QRE141J-682Y	C R	6.8kΩ 1/4W J
R1751	QRE141J-103Y	C R	10kΩ 1/4W J
R1752	QRE141J-332Y	C R	3.3kΩ 1/4W J
R1753	QRE141J-682Y	C R	6.8kΩ 1/4W J
R1754	QRE141J-103Y	C R	10kΩ 1/4W J
R1755	QRE141J-332Y	C R	3.3kΩ 1/4W J
R1761	QRE141J-561Y	C R	560Ω 1/4W J
R1762	QRE141J-681Y	C R	680Ω 1/4W J
R1902	QRL039J-683	OM R	68kΩ 3W J
△ R1904	QRF074K-3R3	UNF R	3.3Ω 7W K
R1921	QRE121J-681Y	C R	680Ω 1/2W J
R1923	QRW059J-R27	MP R	0.27Ω 5W J
R1924	QRE121J-103Y	C R	10kΩ 1/2W J
R1925	QRE121J-102Y	C R	1kΩ 1/2W J
R1926	QRE121J-272Y	C R	2.7kΩ 1/2W J
R1928	QRG029J-473	OM R	47kΩ 2W J
R1929	QRE121J-332Y	C R	3.3kΩ 1/2W J
R1932	QRE121J-824Y	C R	820kΩ 1/2W J
△ R1933	QRE121J-3R9Y	C R	3.9Ω 1/2W J
R1934	QRE121J-393Y	C R	39kΩ 1/2W J
R1941	QRE121J-152Y	C R	1.5kΩ 1/2W J
R1943	QRE141J-472Y	C R	4.7kΩ 1/4W J
R1944	QRE121J-332Y	C R	3.3kΩ 1/2W J
R1946	QRE141J-153Y	C R	15kΩ 1/4W J
R1970	QRG01GJ-120	OM R	12Ω 1W J
R1971	QRE141J-223Y	C R	22kΩ 1/4W J
R1972	QRE121J-152Y	C R	1.5kΩ 1/2W J
R1973	QRL029J-390	OM R	39Ω 2W J
R1974	QRE141J-222Y	C R	2.2kΩ 1/4W J
R1975	QRE141J-123Y	C R	12kΩ 1/4W J
R1976	QRJ146J-680X	C R	68Ω 1/4W J
R1977	QRG029J-183	OM R	18kΩ 2W J
R1979	QRL029J-270	OM R	27Ω 2W J
R1980	QRE141J-821Y	C R	820Ω 1/4W J

△ Symbol No. Part No. Part Name Description Local

RESISTOR

R1981	QRE141J-222Y	C R	2.2kΩ 1/4W J
R1982	QRE141J-822Y	C R	8.2kΩ 1/4W J
R1983	QRE141J-102Y	C R	1kΩ 1/4W J
R1984	QRE141J-822Y	C R	8.2kΩ 1/4W J
△ R1991	QRZ0057-825	C R	8.2MΩ 1W J

CAPACITOR

C1001	QETN1HM-475Z	E CAP.	4.7μF 50V M
C1002	QETN1CM-108Z	E CAP.	1000μF 16V M
C1003	QETN1HM-106Z	E CAP.	10μF 50V M
C1004	QETN1CM-107Z	E CAP.	100μF 16V M
C1005-07	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1015	QCB31HK-222Z	C CAP.	2200pF 50V K
C1016	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
C1101-07	QCB31HK-472Z	C CAP.	4700pF 50V K
C1108	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1110-11	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1112	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1113	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1114	QETN1HM-474Z	E CAP.	0.47μF 50V M
C1116	QETN1HM-474Z	E CAP.	0.47μF 50V M
C1118	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1119-20	QETN1CM-476Z	E CAP.	47μF 16V M
C1121	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1122	QETN1CM-476Z	E CAP.	47μF 16V M
C1123	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1124	QETN1CM-476Z	E CAP.	47μF 16V M
C1135	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1136	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
C1201	QETN1CM-107Z	E CAP.	100μF 16V M
C1202	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1203	QETN1HM-105Z	E CAP.	1μF 50V M
C1204	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1205	QETN1HM-475Z	E CAP.	4.7μF 50V M
C1206	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1207	QETN1CM-107Z	E CAP.	100μF 16V M
C1208	QETN1HM-106Z	E CAP.	10μF 50V M
C1209	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1210	QETN1HM-106Z	E CAP.	10μF 50V M
C1212	QETN1HM-106Z	E CAP.	10μF 50V M
C1213	QENC1CM-106Z	BP E CAP.	10μF 16V M
C1231	QETN1CM-227Z	E CAP.	220μF 16V M
C1232	QETN1CM-477Z	E CAP.	470μF 16V M
C1234	QETN1HM-106Z	E CAP.	10μF 50V M
C1253	QETN1HM-106Z	E CAP.	10μF 50V M
C1301	QFLC1HJ-473Z	M CAP.	0.047μF 50V J
C1302	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1303	QDC31HJ-120Z	C CAP.	12pF 50V J
C1304-06	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
C1307	QETN1HM-225Z	E CAP.	2.2μF 50V M
C1308	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1309	QETN1HM-475Z	E CAP.	4.7μF 50V M
C1310	QCB31HK-103Z	C CAP.	0.01μF 50V K
C1311	QETN1CM-107Z	E CAP.	100μF 16V M
C1312	QETN1CM-227Z	E CAP.	220μF 16V M
C1313	QETN1HM-106Z	E CAP.	10μF 50V M
C1316	QCS31HJ-101Z	C CAP.	100pF 50V J
C1320	QCS31HJ-101Z	C CAP.	100pF 50V J
C1351	QETN1CM-227Z	E CAP.	220μF 16V M
C1353	QCB31HK-331Z	C CAP.	330pF 50V K
C1355	QCB31HK-331Z	C CAP.	330pF 50V K
C1357	QCB31HK-391Z	C CAP.	390pF 50V K
C1359	QFH638K-223	MM CAP.	0.022μF 1250V K
C1360	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
C1402	QEM61HK-225Z	E CAP.	2.2μF 50V K

AV-A14M2(L)U

△ Symbol No.	Part No.	Part Name	Description	Local
CAPACITOR				
C1405	QETN1HM-105Z	E CAP.	1μF 50V M	
C1421	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1422	QFLC1HJ-182Z	M CAP.	1800pF 50V J	
C1423	QFLC2AJ-473Z	M CAP.	0.047μF 100V J	
C1427-28	QETN1VM-107Z	E CAP.	100μF 35V M	
C1430	QFLC2AJ-103Z	M CAP.	0.01μF 100V J	
C1433	QETN1HM-475Z	E CAP.	4.7μF 50V M	
C1435	QETN1EM-108Z	E CAP.	1000μF 25V M	
C1436	QFV71HJ-334Z	MF CAP.	0.33μF 50V J	
C1437	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1450	QETN1CM-107Z	E CAP.	100μF 16V M	
C1501	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1502	QETN1HM-105Z	E CAP.	1μF 50V M	
C1503	QETN1AM-108Z	E CAP.	1000μF 10V M	
C1504-06	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1507	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	
C1508	QETN1CM-476Z	E CAP.	47μF 16V M	
C1509-10	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1521	QCB32HK-151Z	C CAP.	150pF 500V K	
C1522	QCB32HK-102Z	C CAP.	1000pF 500V K	
C1523	QEH2CM-105Z	E CAP.	1μF 160V M	
△ C1524	QFZ0117-8601	MPP CAP.	8600pF 1.4kVH±2.5%	
△ C1527	QFZ0119-754	MPP CAP.	0.75μF 200V ±3%	
C1552	QETN1EM-108Z	E CAP.	1000μF 25V M	
C1557	QETN2EM-225Z	E CAP.	2.2μF 250V M	
C1571	QEH2CM-476	E CAP.	47μF 160V M	
C1581	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1591	QETN1AM-227Z	E CAP.	220μF 10V M	
C1592	QETN2AM-106Z	E CAP.	10μF 100V M	
C1601	QETN1HM-106Z	E CAP.	10μF 50V M	
C1602	QFLC1HJ-223Z	M CAP.	0.022μF 50V J	
C1603	QCS31HJ-470Z	C CAP.	47pF 50V J	
C1604	QDC31HJ-470Z	C CAP.	47pF 50V J	
C1606	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1607	QETN1CM-107Z	E CAP.	100μF 16V M	
C1608-12	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1631-32	QETN1HM-106Z	E CAP.	10μF 50V M	
C1651	QETN1CM-107Z	E CAP.	100μF 16V M	
C1652	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1653	QENC1HM-105Z	BP E CAP.	1μF 50V M	
C1656	QETN1EM-476Z	E CAP.	47μF 25V M	
C1657	QETN1AM-477Z	E CAP.	470μF 10V M	
C1659	QFLC1HJ-473Z	M CAP.	0.047μF 50V J	
C1661-62	QETN1HM-475Z	E CAP.	4.7μF 50V M	
C1663	QETN1EM-477Z	E CAP.	470μF 25V M	
C1701	QETN1CM-107Z	E CAP.	100μF 16V M	
C1702	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1703	QETN1CM-476Z	E CAP.	47μF 16V M	
C1704	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1705	QETN1AM-107Z	E CAP.	100μF 10V M	
C1707	QFLC1HJ-272Z	M CAP.	2700pF 50V J	
C1708	QFLC1HJ-222Z	M CAP.	2200pF 50V J	
C1709	QCS31HJ-560Z	C CAP.	56pF 50V J	
C1710	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1711	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1712	QETN1HM-106Z	E CAP.	10μF 50V M	
C1713	QCS31HJ-181Z	C CAP.	180pF 50V J	
C1714	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	
C1715	QFLC1HJ-473Z	M CAP.	0.047μF 50V J	
C1721	QETN1HM-106Z	E CAP.	10μF 50V M	
C1723-27	QCS31HJ-181Z	C CAP.	180pF 50V J	
C1729-31	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	
C1751	QETN1CM-476Z	E CAP.	47μF 16V M	
△ C1902	QFZ9040-104	MF CAP.	0.1μFAC275V M	
△ C1903	QFZ9040-473	MF CAP.	0.047μFAC275V M	
△ C1904	QCZ9054-102	C CAP.	1000pFAC250V Z	
△ C1905	QCZ9054-102	C CAP.	1000pFAC250V Z	
△ C1906	QCZ9054-102	C CAP.	1000pFAC250V Z	
△ C1907	QCZ9054-102	C CAP.	1000pFAC250V Z	

△ Symbol No.	Part No.	Part Name	Description	Local
CAPACITOR				
△ C1909	QEZO199-127	E CAP.	120μF 400V M	
C1921	QCZO122-391	C CAP.	390pF 2kV K	
C1922	QFLC1HJ-471Z	M CAP.	470pF 50V J	
C1924	QETN1VM-107Z	E CAP.	100μF 35V M	
C1925-26	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1929	QCB32HK-103	C CAP.	0.01μF 500V K	
C1930	QCZO122-561	C CAP.	560pF 2kV K	
C1931	QCZO122-391	C CAP.	390pF 2kV K	
C1941	QCZO122-821	C CAP.	820pF 2kV K	
△ C1942	QEZO203-107	E CAP.	100μF 160V M	
C1945	QETN1CM-108Z	E CAP.	1000μF 16V M	
C1948	QETN1EM-108Z	E CAP.	1000μF 25V M	
C1950	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1971	QETN1HM-106Z	E CAP.	10μF 50V M	
C1972	QETN1EM-227Z	E CAP.	220μF 25V M	
C1974	QETN1EM-108Z	E CAP.	1000μF 25V M	
C1975	QETN1EM-107Z	E CAP.	100μF 25V M	
C1976-77	QETN1CM-107Z	E CAP.	100μF 16V M	
C1978	QETN1AM-107Z	E CAP.	100μF 10V M	
△ C1991	QCZ9079-471	C CAP.	470pFAC250V K	
△ C1992	QCZ9079-471	C CAP.	470pFAC250V K	
△ C1993	QCZ9079-152	C CAP.	1500pFAC250V M	
TRANSFORMER				
T1101	CELT001-303J3	C.WAVE TRANSF.		
T1521	CE42034-001	H.DRIVE TRANSF.		
△ T1522	QHO0020-001	FLYBACK TRANSF.		
△ T1921	CETS096-001J2	SWITCH. TRANSF.		
COIL				
L1001	QQL244K-8R2Z	COIL	8.2μH K	
L1104	QQL244K-150Z	COIL	15μH K	
L1105	QQL244K-8R2Z	COIL	8.2μH K	
L1106	QQL244K-100Z	COIL	10μH K	
L1301-02	QQL244K-470Z	COIL	47μH K	
L1303	QQL244K-4R7Z	COIL	4.7μH K	
L1351-53	QQL244K-820Z	COIL	82μH K	
L1551	QQLZ018-560	HEATER CHOKE		
L1601	QQL244K-120Z	COIL	12μH K	
L1701	QQL244K-5R6Z	COIL	5.6μH K	
L1941	QQL42AK-820Z	COIL	82μH K	
L1942	QQL42AK-560Z	COIL	56μH K	
DIODE				
D1001	MTZJ33A-T2	ZENER DIODE		
D1101-02	1SS85-T2	SI. DIODE		
D1104	1SS133-T2	SI. DIODE		
D1203	1SS133-T2	SI. DIODE		
D1231-32	MTZJ13B-T2	ZENER DIODE		
D1301	MTZJ10C-T2	ZENER DIODE		
D1421	1SS133-T2	SI. DIODE		
D1423	1SR124-400A-T2	SI. DIODE		
D1425	1SS133-T2	SI. DIODE		
D1501	MTZJ9.1B-T2	ZENER DIODE		
D1502	MTZJ5.1B-T2	ZENER DIODE		
D1551	1SR124-400A-T2	SI. DIODE		
D1553	RH15-T3	SI. DIODE		
D1582	RGP10J-5025-T3	SI. DIODE		
D1591	MA4068N/Z1/-T2	ZENER DIODE		
D1592	1SR35-400A-T2	SI. DIODE		
D1601	MTZJ6.8A-T2	ZENER DIODE		
D1602	MTZJ6.2B-T2	ZENER DIODE		
D1631	MTZJ6.2B-T2	ZENER DIODE		
D1633	MTZJ9.1C-T2	ZENER DIODE		
D1636	MTZJ9.1C-T2	ZENER DIODE		

Symbol No.	Part No.	Part Name	Description	Local
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DIODE

D1652	1SS133-T2	SI. DIODE		
D1701-03	1SS133-T2	SI. DIODE		
D1705	1SS133-T2	SI. DIODE		
D1706-09	MTZJ8.2B-T2	ZENER DIODE		
D1739	MTZJ8.2B-T2	ZENER DIODE		
D1758	SPR-39MWWF	L.E.D.		
D1759	1SS133-T2	SI. DIODE		
Δ D1901	D2SBA60	BRIDGE DIODE		
D1921-22	1SR124-400A-T2	SI. DIODE		
D1923	MTZJ15A-T2	ZENER DIODE		
D1924	1SS133-T2	SI. DIODE		
D1926	RUIC-LFC4	SI. DIODE		
D1927	MTZJ6.8A-T2	ZENER DIODE		
D1929	MTZJ15A-T2	ZENER DIODE		
D1941	RU3AM-LFC4	SI. DIODE		
D1942	RU3YX-LFC4	SI. DIODE		
D1945	MTZJ6.2B-T2	ZENER DIODE		
D1971	1SR124-400A-T2	SI. DIODE		
D1981-84	1SS133-T2	SI. DIODE		
D1985	MTZJ5.6A-T2	ZENER DIODE		

TRANSISTOR

Q1101	2SC5083/L-P/-T	SI. TRANSISTOR		
Q1102	DTC124ESA-T	DIGI. TRANSISTOR		
Q1103	2SC1740S/QR/-T	SI. TRANSISTOR		
Q1104	2SA933AS/QR/-T	SI. TRANSISTOR		
Q1105-06	DTC124ESA-T	DIGI. TRANSISTOR		
Q1107	2SC1740S/QR/-T	SI. TRANSISTOR		
Q1108-09	2SA933AS/QR/-T	SI. TRANSISTOR		
Q1110-11	DTC124ESA-T	DIGI. TRANSISTOR		
Q1202	2SA933AS/QR/-T	SI. TRANSISTOR		
Q1231	2SC1740S/QR/-T	SI. TRANSISTOR		
Q1351-53	2SC4722/NP/	SI. TRANSISTOR		
Q1422-24	2SC1740S/QR/-T	SI. TRANSISTOR		
Q1425	2SA933AS/QR/-T	SI. TRANSISTOR		
Q1521	BSN274	F.E.T.		
Δ Q1522	2SD1876-YD	SI. TRANSISTOR	H. OUT	
Q1523	2SC2785/JH/-T	SI. TRANSISTOR		
Q1601-02	2SC1740S/QR/-T	SI. TRANSISTOR		
Q1603	DTC124ESA-T	DIGI. TRANSISTOR		
Q1604	2SC1740S/QR/-T	SI. TRANSISTOR		
Q1605	DTC124ESA-T	DIGI. TRANSISTOR		
Q1608	2SC1740S/QR/-T	SI. TRANSISTOR		
Q1631	2SC1740S/QR/-T	SI. TRANSISTOR		
Q1651	2SC1740S/QR/-T	SI. TRANSISTOR		
Q1701	2SA933AS/QR/-T	SI. TRANSISTOR		
Q1702-03	2SC1740S/QR/-T	SI. TRANSISTOR		
Q1754-55	DTA124ESA-T	DIGI. TRANSISTOR		
Q1756	DTC124ESA-T	DIGI. TRANSISTOR		
Q1921	2SA933AS/QR/-T	SI. TRANSISTOR		
Q1941	2SC1740S/QR/-T	SI. TRANSISTOR		
Q1942	DTC144GSA-T	DIGI. TRANSISTOR		
Q1971	2SA966/OY/-T	SI. TRANSISTOR		
Q1972	DTC144GSA-T	DIGI. TRANSISTOR		
Q1981	2SA933AS/QR/-T	SI. TRANSISTOR		

IC

IC1101	M5234ZSP	I.C. (MONO-ANA)		
IC1201	TB1226EN	I.C. (DIGI-OTHER)		

Symbol No.	Part No.	Part Name	Description	Local
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IC

IC1421	LA7840	I.C. (MONO-ANA)		
IC1651	AN5265	I.C. (MONO-ANA)		
IC1701	M37212M8-050SP	I.C.		
IC1702	AT24C04-K21M2L	I.C.	(SERVICE)	
IC1703	L78LRO5E-NA	I.C. (MONO-ANA)		
IC1751	PIC-21043SR	IFR DETECT UNIT		
Δ IC1921	STR-F6653	I.C. (HYBRID)		
Δ IC1941	S1854A	I.C. (MONO-ANA)		
IC1971	AN7812F	I.C. (MONO-ANA)		
IC1972	AN7809F	I.C. (MONO-ANA)		
IC1973	AN7805F	I.C. (MONO-ANA)		

OTHERS

	LC30349-001A-H	LED HOLDER		
	CM45963-003-H	SHIELD PLATE		
CF1102	QAX0358-001	CERAMIC FILTER		
CF1103	QAX0339-001	CERAMIC FILTER		
CF1104	TPS5.5MW	CERAMIC FILTER		
CF1105	TPS6.5MB	CERAMIC FILTER		
CF1106	TPSH6.0MB	CERAMIC FILTER		
CF1601	SFSH4.5MCB	CERAMIC FILTER		
CF1604	QAX0336-001	CERAMIC FILTER		
CF1606	QAX0337-001	CERAMIC FILTER		
CF1608	QAX0338-001	CERAMIC FILTER		
Δ CP1942	ICP-N75-Y	I.C. PROTECT		
Δ CP1944	ICP-N5-Y	I.C. PROTECT		
EF1201	CE42142-222Z	EMI FILTER		
Δ F1901	QMF51E2-3R15J4	FUSE	3.15A	
FC1901	CEMG002-001Z	FUSE CLIP		
Δ FR1551	QRZ9017-4R7	F R	4.7 Ω 1/4W J	
Δ FR1552	QRZ9021-1R0	F R	1 Ω 1W J	
Δ FR1554	QRJ149J-150	C R	15Ω 1/4W J	
J1001	CENW075-001	PIN JACK		
J1002	CENW065-001	PIN JACK		
J1003	CENW065-002	PIN JACK		
K1001	CE41433-001Z	BEADS CORE		
K1201	CE41433-001Z	BEADS CORE		
K1301	CE41433-001Z	BEADS CORE		
K1701-08	CE41433-001Z	BEADS CORE		
K1921	CE41433-001Z	BEADS CORE		
K1923	CE42050-001Z	CORE		
K1941-42	CE41433-001Z	BEADS CORE		
Δ LF1902	QOR0906-001	LINE FILTER		
Δ PC1921	TLF721F(D4-GR)	I.C. (PH. COUPLER)		
S1751	QSW0619-003Z	PUSH SWITCH	CH PRESET	
S1752	QSW0619-003Z	PUSH SWITCH	CH -	
S1753	QSW0619-003Z	PUSH SWITCH	CH +	
S1754	QSW0619-003Z	PUSH SWITCH	VOL -	
S1755	QSW0619-003Z	PUSH SWITCH	VOL +	
Δ S1901	QSP4K21-C01	PUSH SWITCH	POWER SW	
SF1101	QAX0323-001	SAW FILTER		
SF1102	QAX0325-001	SAW FILTER		
Δ SK1351	CE42554-001	C.R.T. SOCKET		
Δ TH1901	CEKP010-001J2	W.P. THERMISTOR		
TU1001	CEEM574-B01	TUNER		
Δ VA1901	ERZV10V621CS	VARIATOR		
X1301	QAX0354-001	CRYSTAL		
X1701	CST8.00MTW	CER. RESONATOR		

AV-A14M2(LU)

AV-A14T2
AV-A1432
AV-1411EE

PRINTED WIRING BOARD PARTS LIST

AV-A14T2(L) / AV-A14T2(L)-A / AV-A1432(L)-SC / AV-1411EE(L)

MAIN P.W. BOARD ASS'Y (SCL-1209A-H2)

△ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
R1001-04	QRE141J-102Y	C R	1kΩ 1/4W J	
R1101	QRE141J-473Y	C R	47kΩ 1/4W J	
R1102	QRE141J-153Y	C R	15kΩ 1/4W J	
R1103	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1104	QRE141J-101Y	C R	100Ω 1/4W J	
R1108	QRE141J-750Y	C R	75Ω 1/4W J	
R1109	QRE141J-100Y	C R	10Ω 1/4W J	
R1110	QRE141J-182Y	C R	1.8kΩ 1/4W J	
R1111	QRE141J-101Y	C R	100Ω 1/4W J	
R1116	QRE141J-104Y	C R	100kΩ 1/4W J	
R1117	QRE141J-272Y	C R	2.7kΩ 1/4W J	
R1118	QRE141J-273Y	C R	27kΩ 1/4W J	
R1119	QRE141J-224Y	C R	220kΩ 1/4W J	
R1120	QRE141J-822Y	C R	8.2kΩ 1/4W J	
R1123	QRE141J-151Y	C R	150Ω 1/4W J	
R1128	QRE141J-821Y	C R	820Ω 1/4W J	
R1129	QRE141J-181Y	C R	180Ω 1/4W J	
R1130	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1131	QRE141J-181Y	C R	180Ω 1/4W J	
R1132-33	QRE141J-331Y	C R	330Ω 1/4W J	
R1135	QRE141J-224Y	C R	220kΩ 1/4W J	
R1203	QRE141J-224Y	C R	220kΩ 1/4W J	
R1204-05	QRE141J-391Y	C R	390Ω 1/4W J	
R1206	QRE141J-103Y	C R	10kΩ 1/4W J	
R1208	QRE141J-681Y	C R	680Ω 1/4W J	
R1209	QRE141J-821Y	C R	820Ω 1/4W J	
R1210	QRE141J-122Y	C R	1.2kΩ 1/4W J	
R1232	QRE141J-101Y	C R	100Ω 1/4W J	
R1233	QRE121J-101Y	C R	100Ω 1/2W J	
R1234	QRE141J-680Y	C R	68Ω 1/4W J	
R1235	QRE141J-750Y	C R	75Ω 1/4W J	
R1303	QRE141J-273Y	C R	27kΩ 1/4W J	
R1304-06	QRE141J-101Y	C R	100Ω 1/4W J	
R1307-10	QRE141J-102Y	C R	1kΩ 1/4W J	
R1311	QRE141J-333Y	C R	33kΩ 1/4W J	
R1313	QRE141J-103Y	C R	10kΩ 1/4W J	
R1314-15	QRE141J-101Y	C R	100Ω 1/4W J	
R1351-53	QRE141J-151Y	C R	150Ω 1/4W J	
R1354	QRL029J-123	OM R	12kΩ 2W J	
R1355	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1356	QRE141J-331Y	C R	330Ω 1/4W J	
R1357	QRL029J-123	OM R	12kΩ 2W J	
R1358	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1359	QRE141J-331Y	C R	330Ω 1/4W J	
R1360	QRL029J-123	OM R	12kΩ 2W J	
R1361	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1362	QRE141J-331Y	C R	330Ω 1/4W J	
R1363	QRZ0107-152Z	C R	1.5kΩ 1/2W K	
R1364	QRE141J-182Y	C R	1.8kΩ 1/4W J	
R1365	QRE141J-101Y	C R	100Ω 1/4W J	
R1366	QRZ0107-152Z	C R	1.5kΩ 1/2W K	
R1367	QRE141J-101Y	C R	100Ω 1/4W J	
R1368	QRZ0107-152Z	C R	1.5kΩ 1/2W K	
R1369	QRE141J-101Y	C R	100Ω 1/4W J	
R1372	QRE141J-152Y	C R	1.5kΩ 1/4W J	
R1403	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1422	QRE141J-472Y	C R	4.7kΩ 1/4W J	
R1423	QRE141J-221Y	C R	220Ω 1/4W J	
R1425-26	QRE141J-333Y	C R	33kΩ 1/4W J	
R1427	QRE141J-103Y	C R	10kΩ 1/4W J	
R1429	QRE141J-562Y	C R	5.6kΩ 1/4W J	
R1430	QRE141J-103Y	C R	10kΩ 1/4W J	
R1431	QRE141J-822Y	C R	8.2kΩ 1/4W J	

△ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
R1432-33	QRE121J-8R2Y	C R	8.2Ω 1/2W J	
R1440	QRE121J-331Y	C R	330Ω 1/2W J	
R1441	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1442	QRE141J-822Y	C R	8.2kΩ 1/4W J	
R1443	QRE121J-1R0Y	C R	1.0Ω 1/2W J	
R1445	QRE121J-102Y	C R	1kΩ 1/2W J	
R1450	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1451	QRE141J-103Y	C R	10kΩ 1/4W J	
R1453	QRE141J-122Y	C R	1.2kΩ 1/4W J	
R1501	QRE141J-822Y	C R	8.2kΩ 1/4W J	
R1502	QRE141J-621Y	C R	620Ω 1/4W J	
R1504	QRE141J-103Y	C R	10kΩ 1/4W J	
R1505	QRE141J-104Y	C R	100kΩ 1/4W J	
R1506	QRG016J-121	OM R	120Ω 1W J	
R1522	QRE141J-123Y	C R	12kΩ 1/4W J	
R1523	QRE121J-562Y	C R	5.6kΩ 1/2W J	
R1524	QRG029J-222	OM R	2.2kΩ 2W J	
R1525	QRG029J-272	OM R	2.7kΩ 2W J	
R1526	QRE121J-220Y	C R	22Ω 1/2W J	
R1529	QRG029J-121	OM R	120Ω 2W J	
R1582	QRE141J-153Y	C R	15kΩ 1/4W J	
R1583	QRE141J-123Y	C R	12kΩ 1/4W J	
R1594	QRE141J-332Y	C R	3.3kΩ 1/4W J	
R1601	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1602	QRE141J-332Y	C R	3.3kΩ 1/4W J	
R1603	QRE141J-103Y	C R	10kΩ 1/4W J	
R1607-08	QRE141J-561Y	C R	560Ω 1/4W J	
R1609	QRE141J-471Y	C R	470Ω 1/4W J	
R1610	QRE141J-332Y	C R	3.3kΩ 1/4W J	
R1611	QRE141J-152Y	C R	1.5kΩ 1/4W J	
R1612	QRE141J-471Y	C R	470Ω 1/4W J	
R1615	QRE141J-561Y	C R	560Ω 1/4W J	
R1616	QRE141J-220Y	C R	22Ω 1/4W J	
R1617	QRE141J-821Y	C R	820Ω 1/4W J	
R1631	QRE141J-681Y	C R	680Ω 1/4W J	
R1632	QRE141J-181Y	C R	180Ω 1/4W J	
R1634	QRE141J-472Y	C R	4.7kΩ 1/4W J	
R1636	QRE141J-473Y	C R	47kΩ 1/4W J	
R1637	QRE141J-393Y	C R	39kΩ 1/4W J	
R1638	QRE141J-102Y	C R	1kΩ 1/4W J	
R1653	QRE141J-183Y	C R	18kΩ 1/4W J	
R1654	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1655	QRE141J-123Y	C R	12kΩ 1/4W J	
R1656	QRE141J-101Y	C R	100Ω 1/4W J	
R1657	QRE141J-473Y	C R	47kΩ 1/4W J	
R1658	QRE141J-103Y	C R	10kΩ 1/4W J	
R1659	QRE141J-153Y	C R	15kΩ 1/4W J	
R1660	QRE141J-391Y	C R	390Ω 1/4W J	
R1661	QRE121J-4R7Y	C R	4.7Ω 1/2W J	
R1662	QRE141J-102Y	C R	1kΩ 1/4W J	
R1663	QRE141J-472Y	C R	4.7kΩ 1/4W J	
R1664	QRX016J-5R6	MF R	5.6Ω 1W J	
R1701	QRE141J-473Y	C R	47kΩ 1/4W J	
R1702	QRB089J-682	NETW.R	6.8kΩ	
R1703	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1704-05	QRE141J-561Y	C R	560Ω 1/4W J	
R1706	QRE141J-821Y	C R	820Ω 1/4W J	
R1707-08	QRE141J-103Y	C R	10kΩ 1/4W J	
R1709	QRE141J-223Y	C R	22kΩ 1/4W J	
R1710	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1711	QRE141J-103Y	C R	10kΩ 1/4W J	
R1712	QRE141J-563Y	C R	56kΩ 1/4W J	
R1713	QRE141J-223Y	C R	22kΩ 1/4W J	
R1714	QRE141J-103Y	C R	10kΩ 1/4W J	

△ Symbol No. Part No. Part Name Description Local

RESISTOR

R1719-21	QRE141J-562Y	C R	5.6kΩ 1/4W J	
R1722	QRE141J-182Y	C R	1.8kΩ 1/4W J	
R1724	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1725	QRB089J-682	NETW. R	6.8kΩ	
R1728	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1731	QRE141J-392Y	C R	3.9kΩ 1/4W J	
R1733-36	QRE141J-221Y	C R	220Ω 1/4W J	
R1737	QRE141J-124Y	C R	120kΩ 1/4W J	
R1738	QRE141J-683Y	C R	68kΩ 1/4W J	
R1739	QRE141J-103Y	C R	10kΩ 1/4W J	
R1740-44	QRE141J-221Y	C R	220Ω 1/4W J	
R1746	QRE141J-473Y	C R	47kΩ 1/4W J	
R1747-48	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1751	QRE141J-103Y	C R	10kΩ 1/4W J	
R1752	QRE141J-332Y	C R	3.3kΩ 1/4W J	
R1753	QRE141J-682Y	C R	6.8kΩ 1/4W J	
R1754	QRE141J-103Y	C R	10kΩ 1/4W J	
R1755	QRE141J-332Y	C R	3.3kΩ 1/4W J	
R1761	QRE141J-561Y	C R	560Ω 1/4W J	
R1762	QRE141J-681Y	C R	680Ω 1/4W J	
R1902	QRL039J-683	OM R	68kΩ 3W J	
△ R1904	QRF074K-3R3	UNF R	3.3 Ω 7W K	
R1921	QRE121J-681Y	C R	680Ω 1/2W J	
R1923	QRM059J-R27	MP R	0.27 Ω 5W J	
R1924	QRE121J-103Y	C R	10kΩ 1/2W J	
R1925	QRE121J-102Y	C R	1kΩ 1/2W J	
R1926	QRE121J-272Y	C R	2.7kΩ 1/2W J	
R1928	QRG029J-473	OM R	47kΩ 2W J	
R1929	QRE121J-332Y	C R	3.3kΩ 1/2W J	
R1932	QRE121J-824Y	C R	820kΩ 1/2W J	
△ R1933	QRE121J-3R9Y	C R	3.9Ω 1/2W J	
R1934	QRE121J-393Y	C R	39kΩ 1/2W J	
R1941	QRE121J-152Y	C R	1.5kΩ 1/2W J	
R1943	QRE141J-472Y	C R	4.7kΩ 1/4W J	
R1944	QRE121J-332Y	C R	3.3kΩ 1/2W J	
R1946	QRE141J-153Y	C R	15kΩ 1/4W J	
R1970	QRG016J-120	OM R	12Ω 1W J	
R1971	QRE141J-223Y	C R	22kΩ 1/4W J	
R1972	QRE121J-152Y	C R	1.5kΩ 1/2W J	
R1973	QRL029J-390	OM R	39Ω 2W J	
R1974	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1975	QRE141J-123Y	C R	12kΩ 1/4W J	
R1976	QRJ146J-680X	C R	68Ω 1/4W J	
R1977	QRG029J-183	OM R	18kΩ 2W J	
R1979	QRL029J-270	OM R	27Ω 2W J	
R1980	QRE141J-821Y	C R	820Ω 1/4W J	
R1981	QRE141J-222Y	C R	2.2kΩ 1/4W J	
R1982	QRE141J-822Y	C R	8.2kΩ 1/4W J	
R1983	QRE141J-102Y	C R	1kΩ 1/4W J	
R1984	QRE141J-822Y	C R	8.2kΩ 1/4W J	
△ R1991	QRZ0057-825	C R	8.2MΩ 1W J	

CAPACITOR

C1001	QETN1HM-475Z	E CAP.	4.7μF 50V M	
C1002	QETN1CM-108Z	E CAP.	1000μF 16V M	
C1003	QETN1HM-106Z	E CAP.	10μF 50V M	
C1004	QETN1CM-107Z	E CAP.	100μF 16V M	
C1005-07	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1015	QCB31HK-222Z	C CAP.	2200pF 50V K	
C1016	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	
C1101-04	QCB31HK-472Z	C CAP.	4700pF 50V K	
C1110-11	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1112	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1113	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1114	QETN1HM-474Z	E CAP.	0.47μF 50V M	

△ Symbol No. Part No. Part Name Description Local

CAPACITOR

C1116	QETN1HM-474Z	E CAP.	0.47μF 50V M	
C1118	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1119-20	QETN1CM-476Z	E CAP.	47μF 16V M	
C1121	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1122	QETN1CM-476Z	E CAP.	47μF 16V M	
C1123	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1124	QETN1CM-476Z	E CAP.	47μF 16V M	
C1135	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1136	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	
C1201	QETN1CM-107Z	E CAP.	100μF 16V M	
C1202	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1203	QETN1HM-105Z	E CAP.	1μF 50V M	
C1204	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1205	QETN1HM-475Z	E CAP.	4.7μF 50V M	
C1206	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1207	QETN1CM-107Z	E CAP.	100μF 16V M	
C1208	QETN1HM-106Z	E CAP.	10μF 50V M	
C1209	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1210	QETN1HM-106Z	E CAP.	10μF 50V M	
C1212	QETN1HM-106Z	E CAP.	10μF 50V M	
C1213	QENC1CM-106Z	BP E CAP.	10μF 16V M	
C1231	QETN1CM-227Z	E CAP.	220μF 16V M	
C1232	QETN1CM-477Z	E CAP.	470μF 16V M	
C1234	QETN1HM-106Z	E CAP.	10μF 50V M	
C1253	QETN1HM-106Z	E CAP.	10μF 50V M	
C1301	QFLC1HJ-473Z	M CAP.	0.047μF 50V J	
C1302	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1303	QDC31HJ-120Z	C CAP.	12pF 50V J	
C1304-06	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1307	QETN1HM-225Z	E CAP.	2.2μF 50V M	
C1308	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1309	QETN1HM-475Z	E CAP.	4.7μF 50V M	
C1310	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1311	QETN1CM-107Z	E CAP.	100μF 16V M	
C1312	QETN1CM-227Z	E CAP.	220μF 16V M	
C1313	QETN1HM-106Z	E CAP.	10μF 50V M	
C1316	QCS31HJ-101Z	C CAP.	100pF 50V J	
C1320	QCS31HJ-101Z	C CAP.	100pF 50V J	
C1351	QETN1CM-227Z	E CAP.	220μF 16V M	
C1353	QCB31HK-331Z	C CAP.	330pF 50V K	
C1355	QCB31HK-331Z	C CAP.	330pF 50V K	
C1357	QCB31HK-391Z	C CAP.	390pF 50V K	
C1359	QFH63BK-223	MM CAP.	0.022μF 1250V K	
C1360	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	
C1402	QENG1HK-225Z	E CAP.	2.2μF 50V K	
C1405	QETN1HM-105Z	E CAP.	1μF 50V M	
C1421	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1422	QFLC1HJ-182Z	M CAP.	1800pF 50V J	
C1423	QFLC2AJ-473Z	M CAP.	0.047μF 100V J	
C1427-28	QETN1VM-107Z	E CAP.	100μF 35V M	
C1430	QFLC2AJ-103Z	M CAP.	0.01μF 100V J	
C1433	QETN1HM-475Z	E CAP.	4.7μF 50V M	
C1435	QETN1EM-108Z	E CAP.	1000μF 25V M	
C1436	QFV71HJ-334Z	MF CAP.	0.33μF 50V J	
C1437	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1450	QETN1CM-107Z	E CAP.	100μF 16V M	
C1501	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1502	QETN1HM-105Z	E CAP.	1μF 50V M	
C1503	QETN1AM-108Z	E CAP.	1000μF 10V M	
C1504-06	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1507	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	
C1508	QETN1CM-476Z	E CAP.	47μF 16V M	
C1509-10	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1521	QCB32HK-151Z	C CAP.	150pF 500V K	
C1522	QCB32HK-102Z	C CAP.	1000pF 500V K	
C1523	QEHCC2CM-105Z	E CAP.	1μF 160V M	
△ C1524	QFZ0117-8601	MPP CAP.	8600pF 1.4kVH±2.5%	

AV-A14T2(L)/AV-A1432(L)/AV-A14T2(L)/AV-A1432(L)/SC/AV-1411EE(L)

△ Symbol No.	Part No.	Part Name	Description	Local
CAPACITOR				
△ C1527	QFZ0119-754	MPP CAP.	0.75μF 200V ±3%	
C1552	QETN1EM-108Z	E CAP.	1000μF 25V M	
C1557	QETN2EM-225Z	E CAP.	2.2μF 250V M	
C1571	QEH82CM-476	E CAP.	47μF 160V M	
C1581	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1601	QETN1HM-106Z	E CAP.	10μF 50V M	
C1602	QFLC1HJ-223Z	M CAP.	0.022μF 50V J	
C1606	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1607	QETN1CM-107Z	E CAP.	100μF 16V M	
C1608-10	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1631-32	QETN1HM-106Z	E CAP.	10μF 50V M	
C1651	QETN1CM-107Z	E CAP.	100μF 16V M	
C1652	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1653	QENC1HM-105Z	BP E CAP.	1μF 50V M	
C1656	QETN1EM-476Z	E CAP.	47μF 25V M	
C1657	QETN1AM-477Z	E CAP.	470μF 10V M	
C1659	QFLC1HJ-473Z	M CAP.	0.047μF 50V J	
C1661-62	QETN1HM-475Z	E CAP.	4.7μF 50V M	
C1663	QETN1EM-477Z	E CAP.	470μF 25V M	
C1701	QETN1CM-107Z	E CAP.	100μF 16V M	
C1702	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1703	QETN1CM-476Z	E CAP.	47μF 16V M	
C1704	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1705	QETN1AM-107Z	E CAP.	100μF 10V M	
C1707	QFLC1HJ-272Z	M CAP.	2700pF 50V J	
C1708	QFLC1HJ-222Z	M CAP.	2200pF 50V J	
C1709	QCS31HJ-560Z	C CAP.	560pF 50V J	
C1710	QCB31HK-103Z	C CAP.	0.01μF 50V K	
C1711	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1712	QETN1HM-106Z	E CAP.	10μF 50V M	
C1713	QCS31HJ-181Z	C CAP.	180pF 50V J	
C1714	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	
C1715	QFLC1HJ-473Z	M CAP.	0.047μF 50V J	
C1721	QETN1HM-106Z	E CAP.	10μF 50V M	
C1723-27	QCS31HJ-181Z	C CAP.	180pF 50V J	
C1729-31	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	
△ C1751	QETN1CM-476Z	E CAP.	47μF 16V M	
△ C1902	QFZ9040-104	MF CAP.	0.1μFAC275V M	
△ C1903	QFZ9040-473	MF CAP.	0.047μFAC275V M	
△ C1904	QCZ9054-102	C CAP.	1000pFAC250V Z	
△ C1905	QCZ9054-102	C CAP.	1000pFAC250V Z	
△ C1906	QCZ9054-102	C CAP.	1000pFAC250V Z	
△ C1907	QCZ9054-102	C CAP.	1000pFAC250V Z	
△ C1909	QEZO199-127	E CAP.	120μF 400V M	
△ C1921	QCZ0122-391	C CAP.	390pF 2KV K	
C1922	QFLC1HJ-471Z	M CAP.	470pF 50V J	
C1924	QETN1VM-107Z	E CAP.	100μF 35V M	
C1925-26	QFLC1HJ-102Z	M CAP.	1000pF 50V J	
C1929	QCB32HK-103	C CAP.	0.01μF 500V K	
C1930	QCZ0122-561	C CAP.	560pF 2KV K	
C1931	QCZ0122-391	C CAP.	390pF 2KV K	
C1941	QCZ0122-821	C CAP.	820pF 2KV K	
△ C1942	QEZO203-107	E CAP.	100μF 160V M	
C1945	QETN1CM-108Z	E CAP.	1000μF 16V M	
C1948	QETN1EM-108Z	E CAP.	1000μF 25V M	
C1950	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	
C1971	QETN1HM-106Z	E CAP.	10μF 50V M	
C1972	QETN1EM-227Z	E CAP.	220μF 25V M	
C1974	QETN1EM-108Z	E CAP.	1000μF 25V M	
C1975	QETN1EM-107Z	E CAP.	100μF 25V M	
C1976-77	QETN1CM-107Z	E CAP.	100μF 16V M	
C1978	QETN1AM-107Z	E CAP.	100μF 10V M	
△ C1991	QCZ9079-471	C CAP.	470pFAC250V K	
△ C1992	QCZ9079-471	C CAP.	470pFAC250V K	
△ C1993	QCZ9079-152	C CAP.	1500pFAC250V M	

△ Symbol No.	Part No.	Part Name	Description	Local
TRANSFORMER				
T1101	CELT001-303J3	C. WAVE TRANSF.		
T1521	CE42034-001	H. DRIVE TRANSF.		
△ T1522	QQH0020-001	FLYBACK TRANSF.		
△ T1921	CETS096-001J2	SWITCH. TRANSF.		

COIL

L1001	QQL244K-8R2Z	COIL	8.2μH
L1105	QQL244K-8R2Z	COIL	8.2μH
L1106	QQL244K-100Z	COIL	10μH
L1301-02	QQL244K-470Z	COIL	47μH
L1303	QQL244K-4R7Z	COIL	4.7μH
L1351-53	QQL244K-820Z	COIL	82μH
L1551	QQLZ018-560	HEATER CHOKE	
L1701	QQL244K-5R6Z	COIL	5.6μH
L1941	QQL42AK-820Z	COIL	82μH
L1942	QQL42AK-560Z	COIL	56μH

DIODE

D1001	MTZJ33A-T2	ZENER DIODE	
D1203	1SS133-T2	SI. DIODE	
D1231-32	MTZJ13B-T2	ZENER DIODE	
D1301	MTZJ10C-T2	ZENER DIODE	
D1421	1SS133-T2	SI. DIODE	
D1423	1SR124-400A-T2	SI. DIODE	
D1425	1SS133-T2	SI. DIODE	
D1501	MTZJ9.1B-T2	ZENER DIODE	
D1502	MTZJ5.1B-T2	ZENER DIODE	
D1551	1SR124-400A-T2	SI. DIODE	
D1553	RH1S-T3	SI. DIODE	
D1582	RGP10J-5025-T3	SI. DIODE	
D1601	MTZJ6.8A-T2	ZENER DIODE	
D1602	MTZJ6.2B-T2	ZENER DIODE	
D1631	MTZJ6.2B-T2	ZENER DIODE	
D1633	MTZJ9.1C-T2	ZENER DIODE	
D1636	MTZJ9.1C-T2	ZENER DIODE	
D1652	1SS133-T2	SI. DIODE	
D1701-03	1SS133-T2	SI. DIODE	
D1705	1SS133-T2	SI. DIODE	
D1706-09	MTZJ8.2B-T2	ZENER DIODE	
D1739	MTZJ8.2B-T2	ZENER DIODE	
D1758	SPR-39MWF	L.E.D.	
D1759	1SS133-T2	SI. DIODE	
△ D1901	D2SBA60	BRIDGE DIODE	
D1921-22	1SR124-400A-T2	SI. DIODE	
D1923	MTZJ15A-T2	ZENER DIODE	
D1924	1SS133-T2	SI. DIODE	
D1926	RU1C-LFC4	SI. DIODE	
D1927	MTZJ6.8A-T2	ZENER DIODE	
D1929	MTZJ15A-T2	ZENER DIODE	
D1941	RU3AM-LFC4	SI. DIODE	
D1942	RU3YX-LFC4	SI. DIODE	
D1945	MTZJ6.2B-T2	ZENER DIODE	
D1971	1SR124-400A-T2	SI. DIODE	
D1981-84	1SS133-T2	SI. DIODE	
D1985	MTZJ5.6A-T2	ZENER DIODE	

TRANSISTOR

Q1101	2SC5083/L-P/-T	SI. TRANSISTOR	
Q1107	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1108-09	2SA933AS/QR/-T	SI. TRANSISTOR	
Q1202	2SA933AS/QR/-T	SI. TRANSISTOR	
Q1231	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1351-53	2SC4722/NP/-	SI. TRANSISTOR	
Q1422-24	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1425	2SA933AS/QR/-T	SI. TRANSISTOR	

△ Symbol No. Part No. Part Name Description Local

TRANSISTOR

Q1521	BSN274	F.E.T.	
△ Q1522	2SD1876-YD	SI. TRANSISTOR	H. OUT
Q1602	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1603	DTC124ESA-T	DIGI. TRANSISTOR	
Q1604	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1605	DTC124ESA-T	DIGI. TRANSISTOR	
Q1631	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1651	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1701	2SA933AS/QR/-T	SI. TRANSISTOR	
Q1702-03	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1754-55	DTA124ESA-T	DIGI. TRANSISTOR	
Q1756	DTC124ESA-T	DIGI. TRANSISTOR	
Q1921	2SA933AS/QR/-T	SI. TRANSISTOR	
Q1941	2SC1740S/QR/-T	SI. TRANSISTOR	
Q1942	DTC144GSA-T	DIGI. TRANSISTOR	
Q1971	2SA966/QY/-T	SI. TRANSISTOR	
Q1972	DTC144GSA-T	DIGI. TRANSISTOR	
Q1981	2SA933AS/QR/-T	SI. TRANSISTOR	

IC

IC1101	MS2342SP	I. C. (MONO-ANA)	
IC1201	TB1226EN	I. C. (DIGI-OTHER)	
IC1421	LA7840	I. C. (MONO-ANA)	
IC1651	AN5265	I. C. (MONO-ANA)	
IC1701	M37212MB-050SP	I. C.	
IC1702	AT24C04-K21M2L	I. C.	(SERVICE)
IC1703	L78LR05E-MA	I. C. (MONO-ANA)	
IC1751	PIC-21043SR	IFR DETECT UNIT	
△ IC1921	STR-F6653	I. C. (HYBRID)	
△ IC1941	S1854A	I. C. (MONO-ANA)	
IC1971	AN7812F	I. C. (MONO-ANA)	
IC1972	AN7809F	I. C. (MONO-ANA)	
IC1973	AN7805F	I. C. (MONO-ANA)	

△ Symbol No. Part No. Part Name Description Local

OTHERS

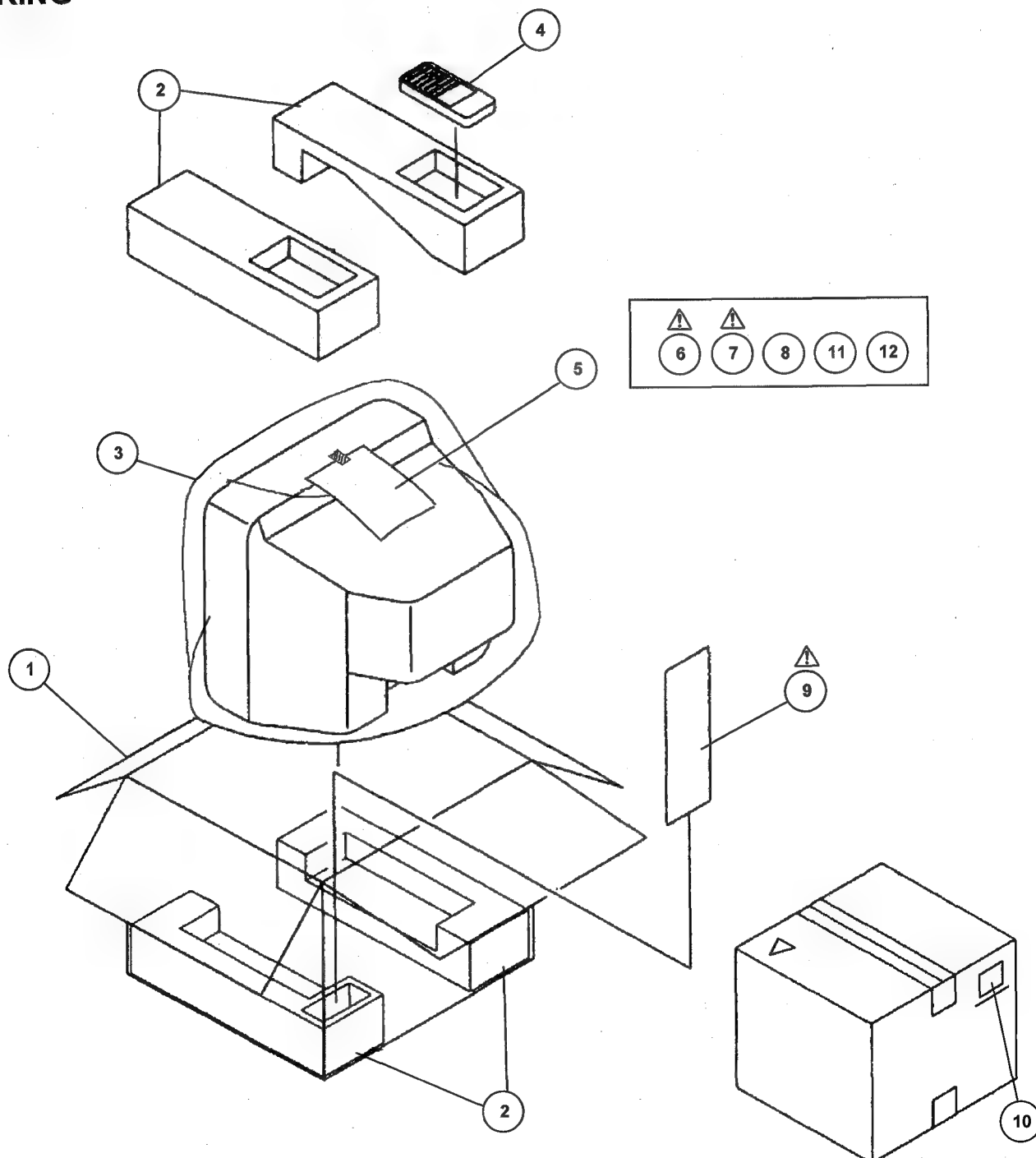
	LC30349-001A-H	LED HOLDER	
	CM45963-003-H	SHIELD PLATE	
CF1104	TPS5.5MM	CERAMIC FILTER	
CF1105	TPS6.5MM	CERAMIC FILTER	
CF1106	TPSH6.0MM	CERAMIC FILTER	
CF1604	QAX0336-001	CERAMIC FILTER	
CF1606	QAX0337-001	CERAMIC FILTER	
CF1608	QAX0338-001	CERAMIC FILTER	
△ CP1942	ICP-N75-Y	I. C. PROTECT	
△ CP1944	ICP-N5-Y	I. C. PROTECT	
EF1201	CE42142-222Z	EMI FILTER	
△ F1901	QMF51E2-3R15J4	FUSE	3.15A
FC1901	CEMG002-001Z	FUSE CLIP	
△ FR1551	QRZ9017-4R7	F R	4.7 Ω 1/4W J
△ FR1552	QRZ9021-1R0	F R	1 Ω 1W J
△ FR1554	QRJ149J-150	C R	15Ω 1/4W J
J1001	CEMN075-001	PIN JACK	
J1002	CEMN065-001	PIN JACK	
J1003	CEMN065-002	PIN JACK	
K1001	CE41433-001Z	BEADS CORE	
K1201	CE41433-001Z	BEADS CORE	
K1301	CE41433-001Z	BEADS CORE	
K1701-08	CE41433-001Z	BEADS CORE	
K1921	CE41433-001Z	BEADS CORE	
K1923	CE42050-001Z	CORE	
K1941-42	CE41433-001Z	BEADS CORE	
△ LF1902	QQR0906-001	LINE FILTER	
△ PC1921	TLP721F(D4-GR)	I. C. (PH. COUPLER)	
S1751	QSW0619-003Z	PUSH SWITCH	CH PRESET
S1752	QSW0619-003Z	PUSH SWITCH	CH -
S1753	QSW0619-003Z	PUSH SWITCH	CH +
S1754	QSW0619-003Z	PUSH SWITCH	VOL -
S1755	QSW0619-003Z	PUSH SWITCH	VOL +
△ S1901	QSP4K21-C01	PUSH SWITCH	POWER SW
SF1101	QAX0324-001	SAW FILTER	
SF1102	QAX0325-001	SAW FILTER	
△ SK1351	CE42554-001	C. R. T. SOCKET	
△ TH1901	CEKP010-001J2	W. P. THERMISTOR	
TU1001	CEEU544-B03	VHF/UHF TUNER	
△ VA1901	ERZV10V621CS	VARIATOR	
X1301	QAX0354-001	CRYSTAL	
X1701	CS78.00MTW	CER. RESONATOR	

AV-A14M2
 AV-A14T2
 AV-A1432
 AV-1411EE

REMOTE CONTROL UNIT PARTS LIST (RM-C360-1H)

△ Ref.No.	Part No.	Part Name	Description	Local
	25-1168 B	BATTERY COVER		*

PACKING



PACKING PARTS LIST

AV-A14M2(L)

△ Ref.No.	Part No.	Part Name	Description	Local
1	CP11613-058-H	PACKIG CASE	4pcs in 1set	
2	LC10166-002A-H	CUSHION ASSY		
3	CP30697-004-H	POLY.BAG		
4	RM-C360-1H	REMOCON UNIT		
5	QPGA025-03505H	POLY BAG		
△ 6	LCT0276-001A-H	INST BOOK		
△ 7	LCT0277-001A-H	DIGEST MANUAL		
8	CEAB005-00AJ1	MATCHING BOX		
△ 9	CM35847-00A-H	ROD ANTENNA		
10	CM47385-00B-H	POS/SERIAL LABEL		

AV-A14M2(L)-HK

△ Ref.No.	Part No.	Part Name	Description	Local
1	CP11613-058-H	PACKING CASE	4pcs in 1set	
2	LC10166-002A-H	CUSHION ASSY		
3	CP30697-004-H	POLY.BAG		
4	RM-C360-1H	REMOCON UNIT		
5	QPGA025-03505H	POLY BAG		
△ 6	LCT0282-001A-H	INST BOOK		
8	CEAB005-00AJ1	MATCHING BOX		
△ 9	CM35847-00A-H	ROD ANTENNA		
10	CM47385-00B-H	POS/SERIAL LABEL		

AV-A14M2(L)-A

△ Ref.No.	Part No.	Part Name	Description	Local
1	CP11613-058-H	PACKING CASE	4pcs in 1set	
2	LC10166-002A-H	CUSHION ASSY		
3	CP30697-004-H	POLY.BAG		
4	RM-C360-1H	REMOCON UNIT		
5	QPGA025-03505H	POLY BAG		
△ 6	LCT0276-001A-H	INST BOOK		
△ 7	LCT0279-001A-H	DIGEST MANUAL		
8	CEAB005-00AJ1	MATCHING BOX		
△ 9	CM35847-00A-H	ROD ANTENNA		
10	CM47385-00B-H	POS/SERIAL LABEL		

AV-A14M2(L)U

△ Ref.No.	Part No.	Part Name	Description	Local
1	CP11613-058-H	PACKIG CASE	4pcs in 1set	
2	LC10166-002A-H	CUSHION ASSY		
3	CP30697-004-H	POLY.BAG		
4	RM-C360-1H	REMOCON UNIT		
5	QPGA025-03505H	POLY BAG		
△ 6	LCT0280-001A-H	INST BOOK		
△ 7	LCT0281-001A-H	DIGEST MANUAL		
8	CEAB005-00AJ1	MATCHING BOX		
△ 9	CM35847-00A-H	ROD ANTENNA		
10	CM47385-00B-H	POS/SERIAL LABEL		

AV-A14T2(L)

△ Ref.No.	Part No.	Part Name	Description	Local
1	CP11613-059-H	PACKING CASE	4pcs in 1set	
2	LC10166-002A-H	CUSHION ASSY		
3	CP30697-004-H	POLY.BAG		
4	RM-C360-1H	REMOCON UNIT		
5	QPGA025-03505H	POLY BAG		
△ 6	LCT0276-001A-H	INST BOOK		
△ 7	LCT0278-001A-H	DIGEST MANUAL		
8	CEAB005-00AJ1	MATCHING BOX		
△ 9	CM35847-00A-H	ROD ANTENNA		
10	CM47385-00B-H	POS/SERIAL LABEL		

AV-A14T2(L)-A

△ Ref.No.	Part No.	Part Name	Description	Local
1	CP11613-059-H	PACKING CASE	4pcs in 1set	
2	LC10166-002A-H	CUSHION ASSY		
3	CP30697-004-H	POLY.BAG		
4	RM-C360-1H	REMOCON UNIT		
5	QPGA025-03505H	POLY BAG		
△ 6	LCT0276-001A-H	INST BOOK		
△ 7	LCT0279-001A-H	DIGEST MANUAL		
8	CEAB005-00AJ1	MATCHING BOX		
△ 9	CM35847-00A-H	ROD ANTENNA		
10	CM47385-00B-H	POS/SERIAL LABEL		

AV-A1432(L) SC

△ Ref.No.	Part No.	Part Name	Description	Local
1	CP11613-074-H	PACKING CASE	4pcs in 1set	
2	LC10166-002A-H	CUSHION ASSY		
3	CP30697-004-H	POLY.BAG		
4	RM-C360-1H	REMOCON UNIT		
5	QPGA025-03505H	POLY BAG		
△ 6	LCT0283-001A-H	INST BOOK		
8	CEAB005-00AJ1	MATCHING BOX		
△ 9	CM35847-00A-H	ROD ANTENNA		
10	CM47385-00B-H	POS/SERIAL LABEL		

AV-1411EE(L)

△ Ref.No.	Part No.	Part Name	Description	Local
1	CP11613-076-H	PACKING CASE	4pcs in 1set	
2	LC10166-002A-H	CUSHION ASSY		
3	CP30697-004-H	POLY.BAG		
4	RM-C360-1H	REMOCON UNIT		
5	QPGA025-03505H	POLY BAG		
△ 6	LCT0285-001A-H	INST BOOK		
8	CEAB005-00AJ1	MATCHING BOX		
△ 9	CM35847-00A-H	ROD ANTENNA		
10	CM47385-00B-H	POS/SERIAL LABEL		
12	BT-54012-1	WARRANTY CARD		

JVC

VICTOR COMPANY OF JAPAN, LIMITED
TELEVISION RECEIVER DIVISION 1106 Heta, Iwai-city, Ibaraki-prefecture, 306-0698, Japan

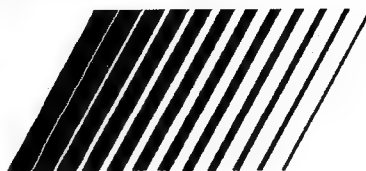
AVA14M2L-H #4 AVA14M2LHK-H #3 AVA14M2LA-H #3 AVA14M2LU-H #3
AVA14T2L-H #4 AVA14T2LA-H #3
AVA1432LSC-H #3 AV1411EEL-H #4



Printed in Japan
VP 9809
DP2053

OPERATING INSTRUCTIONS

JVC



COLOUR TELEVISION

AV-A14M2
AV-A14T2
AV-K14M2
AV-K14T2
AV-A21M2
AV-A21T2
AV-K21M2
AV-K21T2

Contents

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Preparation	4
Viewing a Television Programme	12
Viewing Images from an External Device	14
Sound and Picture	15
Other Features	17
Troubleshooting	22

INSTRUCTIONS

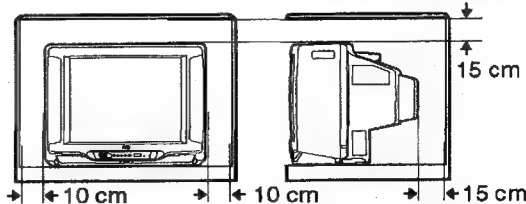
Thank you for purchasing this JVC colour television.
To ensure your complete understanding, please read this manual thoroughly before operation.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

- TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS TV.
- Operate only from the power source specified on the TV.
- Avoid damaging the power plug and power cord.
- Avoid improper installation and never position this TV where good ventilation is unattainable. When installing this TV distance recommendations must be maintained between the floor and wall, as well as installment in a tightly enclosed area or piece of furniture. Adhere to the minimum distance guidelines shown for safe operation.
- Do not allow objects or liquid into the cabinet openings.
- In the event of a fault, unplug this TV and call a service technician. Do not attempt to repair it yourself or remove the rear cover.
- When you don't use this TV for a long period of time, be sure to disconnect the power plug from the AC outlet.

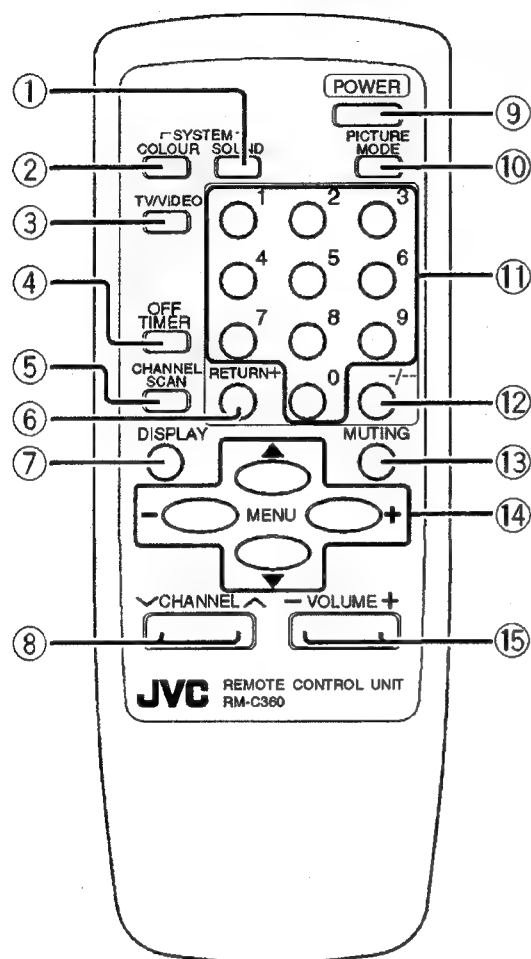


In principle, the operation of the local models is carried out in the same method as for the corresponding basic models. For the operating method of each local model, use the INSTRUCTION MANUAL for the basic models listed below.

Colour system	Basic models	Local models
MALTI. type (PAL/SECAM/NTSC)	AV-A14M2	AV-A14M2(L) / AV-A14M2(L)-A / AV-A14M2(L)-HK / AV-A14M2(L)U
	AV-K14M2	AV-K14M2(L) / AV-K14M2(L)-A / AV-K14M2(L)-HK
	AV-A21M2	AV-A21M2(L) / AV-A21M2(L)-A / AV-A21M2(L)-HK / AV-A21M2(L)U / AV-A21M2(LB)
	AV-K21M2	AV-K21M2(L) / AV-K21M2(L)-A / AV-K21M2(L)-HK / AV-K21M2(LB)
TRIPLE type (PAL/SECAM)	AV-A14T2	AV-A14T2(L) / AV-A14T2(L)-A / AV-A1411EE(L) / AV-1432(L)-SC
	AV-K14T2	AV-K14T2(L) / AV-K14T2(LB) / AV-K14T2(L)-A / AV-1431EE(L)
	AV-A21T2	AV-A21T2(L) / AV-A21T2(LB) / AV-A21T2(L)-A / AV-A2132(L)-SC / AV-2111EE(L)
	AV-K21T2	AV-K21T2(L) / AV-K21T2(LB) / AV-K21T2(L)-A / AV-2131EE(L)

Locations

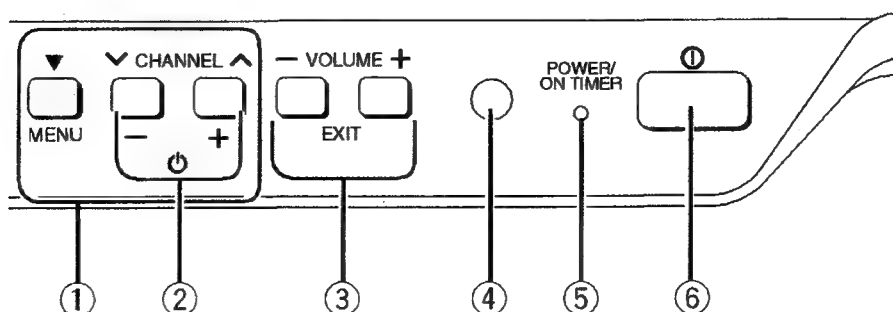
Locations of remote control buttons



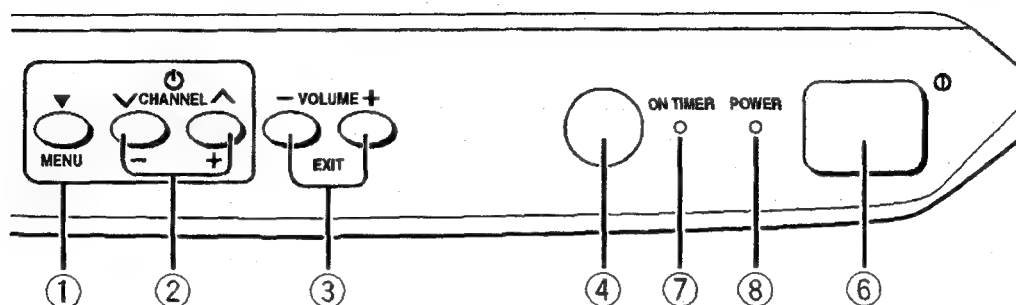
①	SOUND SYSTEM button	p.15
②	COLOUR SYSTEM button	p.15
③	TV/VIDEO button	p.14
④	OFF TIMER button	p.17
⑤	CHANNEL SCAN button	p.13
⑥	RETURN + button	p.17
⑦	DISPLAY button	p.17
⑧	CHANNEL ∇/\wedge buttons	p.12
⑨	POWER button	p.6,12,13
⑩	PICTURE MODE button	p.15
⑪	Number buttons	p.12
⑫	-/-- button	p.12
⑬	MUTING button	p.13
⑭	MENU buttons	
	• MENU $\blacktriangle/\blacktriangledown$ buttons	
	• MENU $-/+$ buttons	
⑮	VOLUME $-/+$ buttons	p.13

Locations of front panel buttons and lamps

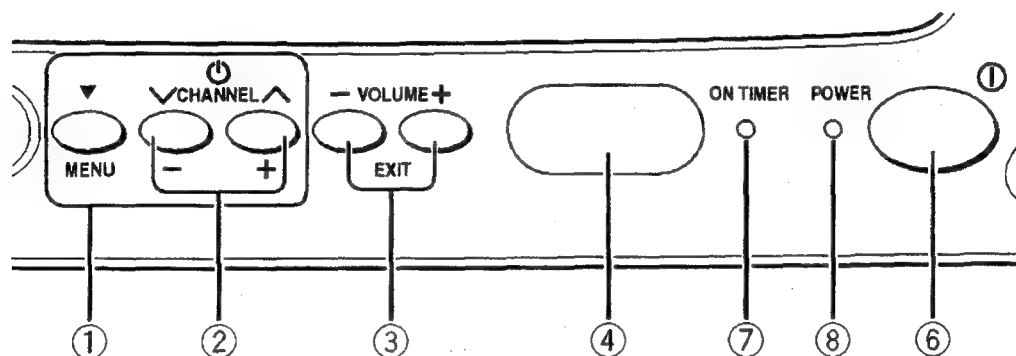
<AV-A14M2/AV-A14T2>



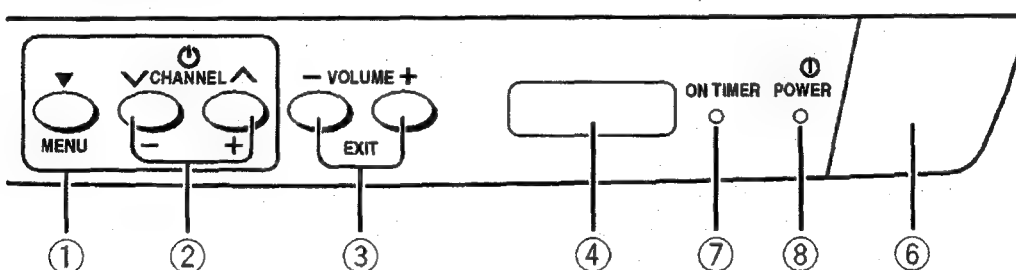
<AV-K14M2/AV-K14T2>



<AV-A21M2/AV-A21T2>



<AV-K21M2/AV-K21T2>



① MENU buttons	p.21
• MENU button	
• MENU -/+ buttons	
② CHANNEL ∇/\wedge buttons	p.13
③ VOLUME -/+ buttons	p.13

④ Remote control sensor	
⑤ POWER/ON TIMER lamp	p.6,13,19
⑥ Main power button	p.6,12,13
⑦ ON TIMER lamp	p.19
⑧ POWER lamp	p.6,13

Preparation

1. Connecting the aerial and external devices

Notes:

- For further details, refer to manuals provided with the devices you are connecting.
 - Connecting cables are not supplied.
 - The front and rear AUDIO/VIDEO input jacks are directly connected so that input to either jack is output through both. You cannot provide input to both the front and rear jacks at the same time. Disconnect one input, or use one of the jacks as an output jack only (for monitoring or recording).
 - The rod aerial and matching aerial adapter is supplied with the AV-A14M2/AV-A14T2/AV-K14M2/AV-K14T2.
-

■ Connecting the aerial and VCR

If not connecting a VCR (video cassette recorder), do ① → ② or ② only.

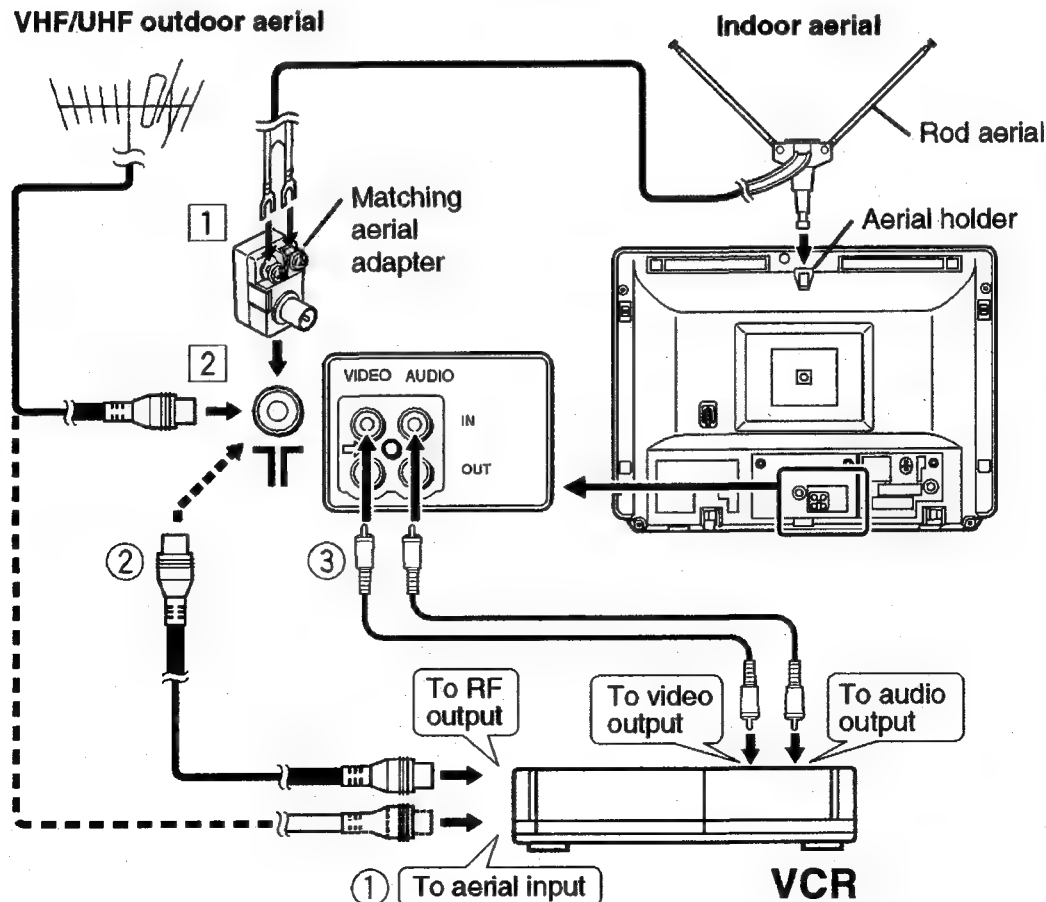
If connecting a VCR, proceed ① → ② → ③.

- You can view images from the VCR without doing ③. For details, see "To view images from a VCR connected to the TV with only an aerial cable" on page 14.

To install rod aerial:

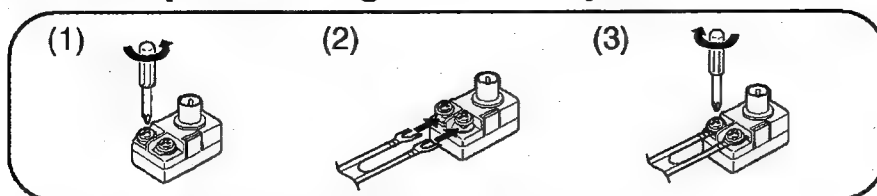
Install into the top-rear aerial holder. Once installed, it cannot be removed.

VHF/UHF outdoor aerial

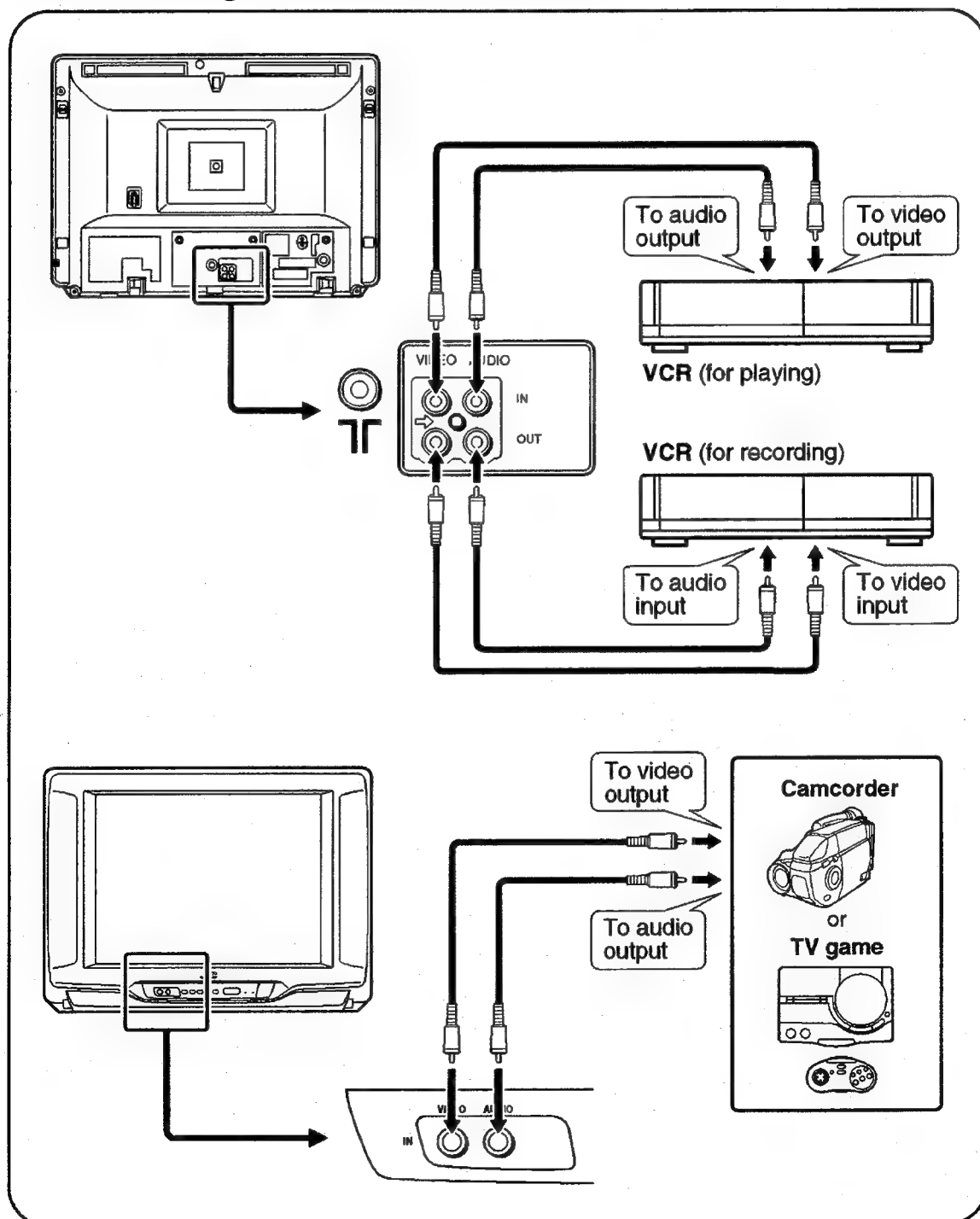


Preparation

To set up matching aerial adapter



■ Connecting other external devices



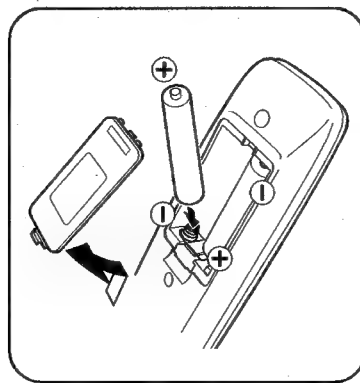
Preparation

2. Connecting the power cord

Insert the Power plug into an AC outlet.

3. Inserting batteries into the remote control

Correctly insert two batteries, observing the \oplus and \ominus polarities, inserting the \ominus end first.

**CAUTION:**

- Follow the cautions printed on the batteries.

Notes:

- Use AA/R6/UM-3 dry cell batteries.
 - Battery life is approximately six months to one year depending on frequency of use.
 - If the remote control operates erratically, replace the batteries.
 - We recommend that you use the supplied batteries initially and replace them as soon as operation becomes erratic.
- The supplied batteries are for testing, not regular use.

4. Turning your TV on

- Press the Main power button on the TV to turn the TV's main power on.

For AV-A14M2 and AV-A14T2:

The POWER/ON TIMER lamp lights green (main power on).

For other models:

The POWER lamp lights red (main power on).

If image does not appear:

Your TV is in the standby mode. Press the POWER button on the remote control to turn your TV on.

- You can also turn on your TV by pressing the CHANNEL \vee/\wedge button on your TV.

To turn your TV off:

Press the POWER button on the remote control. Your TV enters the standby mode.

To turn the TV's main power off:

Press the Main power button on the TV.

For AV-A14M2 and AV-A14T2:

The POWER/ON TIMER lamp goes off.

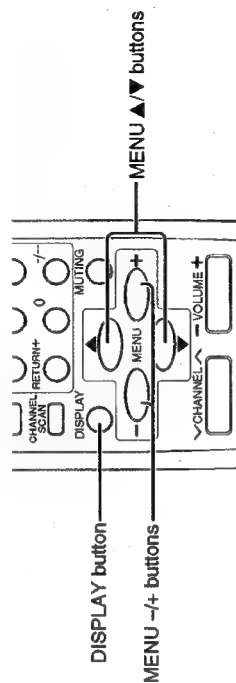
For other models:

The POWER lamp goes off.

Preparation

5. Selecting the on-screen language

You can select one of three languages for the on-screen display. The displayed menus on the screen are described in the selected language. In this manual, on-screen descriptions are given in English. Select ENGLISH.



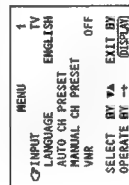
- For details on menu operations using the front control buttons on the TV, see "Menu operations using the front control buttons on the TV" on page 21.

- Press MENU Δ/∇ to display the following menu.

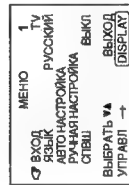
The following menu is displayed in one of three languages.



Chinese



English



Russian

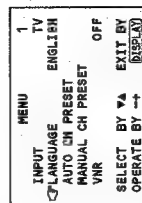
Note:

- If a different menu is displayed, repeatedly press the MENU Δ/∇ button until this menu is displayed.
- If the menu appears in English, the TV's on-screen language is already set to English, so you can skip steps 2 and 3.

- Press MENU Δ/∇ to select the second item on the menu.

- Press MENU +/- to select ENGLISH.

The menu is displayed in English.



- Proceed to "6. Presetting TV stations" on the following page.

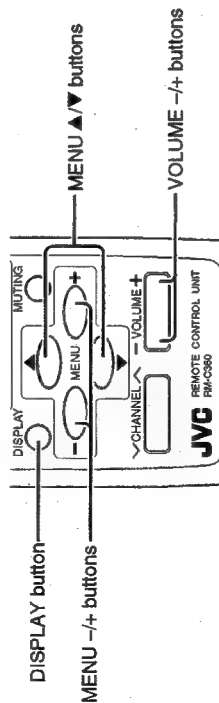
- If you want to complete operations at this stage, press the DISPLAY button to turn the menu display off.

6. Presetting TV stations

To view a TV programme, you must first preset TV stations to channels on the TV. This TV has 100 channels (channel 1 to 99 and channel AV). You can choose between two functions, the Auto Channel Preset and Manual Channel Preset and preset TV stations to channels on TV.

Note:

- After you have finished presetting, you can set undesired channels to be skipped over, see "Skip" on page 11.



- For details on menu operations using the front control buttons on the TV, see "Menu operations using the front control buttons on the TV" on page 21.

■ Auto Channel Preset

You can automatically preset all TV stations that can be received on your TV to channels in one simple operation.

Notes:

- When you use this function, no station is preset to the channel AV.
- Channel AV is offered for viewing images from a VCR connected to your TV with only an aerial cable. For more details, see "To view images from a VCR connected to the TV with only an aerial cable" on page 14.
- If the Auto Channel Preset does not work well, preset TV stations manually. For details, see "Manual Channel Preset" on page 9.

1. Press MENU ▲/▼ to select AUTO CH PRESET in the "MENU 1" menu.

MENU	1	TV
INPUT LANGUAGE	ENGLISH	
▶ AUTO CH PRESET		
MANUAL CH PRESET		
VNR	OFF	
SELECT BY ▼▲	EXIT BY	
OPERATE BY →	DISP. (AV)	

2. Press MENU -/+ to start the Auto Channel Preset function.

">>> ON SEARCH" is displayed on the screen.

When you have finished presetting

all TV channels that can be received on your TV, the display will go out and the Auto Channel Preset function will end.

- To stop the Auto Channel Preset, press the MENU -/+ button.

■ Manual Channel Preset

You can manually preset the desired TV stations to the desired channels.

1. Press MENU ▲/▼ to select MANUAL CH PRESET in the "MENU 1" menu.

MENU	1	TV
INPUT LANGUAGE	ENGLISH	
▶ AUTO CH PRESET		
MANUAL CH PRESET		
VNR	OFF	
SELECT BY ▼▲	EXIT BY	
OPERATE BY →	DISP. (AV)	

To display this menu:

Repeatedly press the MENU ▲/▼ button until it is displayed.

2. Press MENU -/+. The sub-menu is displayed.

MANUAL	CH	NO
FINE	SKIP	B/S
SOUND SYSTEM		
EXIT		
SELECT BY ▼▲	PR 1 VL	
PROGRAM BY →	EXIT BY	
SEARCH BY VOL →	DISP. (AV)	

- The channel No. is displayed as a PR No. For example, channel 1 will be displayed as PR 1. However, channel AV will be displayed as AV.

3. Press MENU -/+ to select the channel No. to be preset.

4. Press VOLUME -/+ to start selection of the TV station. ">>>" or "<<<" is displayed on the screen.

When a TV station is received, the ">>>" or "<<<" display goes out, and the TV station is preset to the currently selected channel No.

- If you have selected the wrong TV station for preset, repeatedly press the VOLUME -/+ button until the desired TV station is selected.
- To stop the Manual Channel Preset, press any button other than the VOLUME -/+ button.

If the picture is not clear:

Use the Fine function to fine-tune the TV station.

1. Press MENU ▲/▼ to select FINE.

MANUAL	CH	NO
▶ FINE	SKIP	B/S
SOUND SYSTEM		
EXIT		
SELECT BY ▼▲	PR 3 VL	
PROGRAM BY →	EXIT BY	
FINE BY VOL →	DISP. (AV)	

2. Hold VOLUME -/+ down to fine-tune the TV station so that the best image is displayed on screen.

">" or "<" indicates that the TV station is being fine-tuned.

(Continued on next page)

Preparation

5. Press MENU Δ/∇ to select SOUND SYSTEM.

MANUAL	NO
FINE	B/G
SKIP	
SOUND SYSTEM	
EXIT	
SELECT BY ∇	PR 3 VL
PROGRAM BY \rightarrow	EXIT BY
CHANGE BY VOL \rightarrow	DISP. \rightarrow

6. Press VOLUME $-/+$ to select the appropriate sound system.

- For the sound systems in each country or region, refer to the table "The Broadcasting systems of Each Country or Region" below.

7. Press MENU Δ/∇ to select MANUAL.

8. Repeat steps 3 to 7 if you want to preset another TV station to a channel.

9. Press DISPLAY to turn the display off.

The Broadcasting Systems of Each Country or Region

Area	Country or Region	System	
		Colour	Sound
Asia, Middle East	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc.	PAL	B/G
	Indonesia, Malaysia, Singapore, Thailand, India, etc.		
	China, Vietnam, etc.		
	Hong Kong, etc.		
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.		
Europe	Philippine, Taiwan, Myanmar, etc.	SECAM	M
	Russia, etc.		
	Czech Republic, Poland, etc.		
	Germany, Holland, Belgium, etc.		
	UK, etc.		
Oceania	Australia, New Zealand, etc.	PAL	B/G
	Republic of South Africa, etc.		
Africa	Nigeria, etc.	PAL	B/G
	Egypt, Morocco, etc.		

Preparation

Skip

When selecting channels, you can set undesired channels to be skipped. Channels set to be skipped cannot be selected by the CHANNEL \vee/\wedge buttons nor the CHANNEL SCAN button.

- Channels to which a station has not been preset are automatically set to be skipped.

1. Press MENU Δ/∇ to display the "MENU 1" menu.

MENU	1
INPUT	TV
LANGUAGE	ENGLISH
AUTO CH PRESET	
MANUAL CH PRESET	
VNR	OFF
SELECT BY ∇	EXIT BY
OPERATE BY \rightarrow	DISP. \rightarrow

- If a different menu is displayed, repeatedly press the MENU Δ/∇ button until this menu is displayed.

2. Press MENU Δ/∇ to select MANUAL CH PRESET.

MENU	1
INPUT	TV
LANGUAGE	ENGLISH
AUTO CH PRESET	
MANUAL CH PRESET	
VNR	OFF
SELECT BY ∇	EXIT BY
OPERATE BY \rightarrow	DISP. \rightarrow

3. Press MENU $-/+$.

The sub-menu is displayed.

MANUAL	NO
FINE	B/G
SKIP	
SOUND SYSTEM	
EXIT	
SELECT BY ∇	PR 1 VL
PROGRAM BY \rightarrow	EXIT BY
SEARCH BY VOL \rightarrow	DISP. \rightarrow

4. Press MENU Δ/∇ to select SKIP.

MANUAL	NO
FINE	B/G
SKIP	
SOUND SYSTEM	
EXIT	
SELECT BY ∇	PR 1 VL
PROGRAM BY \rightarrow	EXIT BY
YES/NO BY VOL \rightarrow	DISP. \rightarrow

Channel No.

- The channel No. is displayed as a PR No. For example, channel 1 will be displayed as PR 1. However, channel AV will be displayed as AV.

5. Press MENU $-/+$ to select the channel you want to skip.

6. Press VOLUME $-/+$ to select YES.

The channel you selected is set to be skipped.

MANUAL	YES
FINE	B/G
SKIP	
SOUND SYSTEM	
EXIT	
SELECT BY ∇	PR 5 VL
PROGRAM BY \rightarrow	EXIT BY
YES/NO BY VOL \rightarrow	DISP. \rightarrow

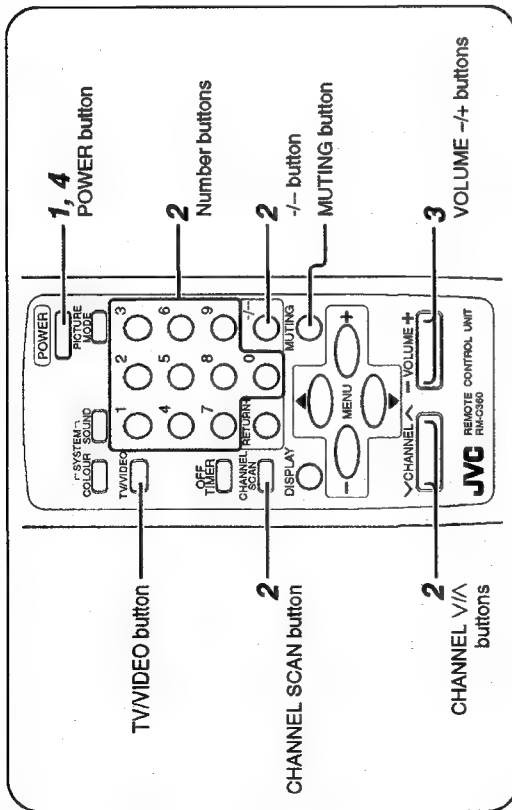
To cancel the Skip: select NO.

7. Repeat steps 5 and 6 if you want to set another channel to skip.

8. Press DISPLAY to turn the display off.

Viewing a Television Programme

Using the remote control



1. Press POWER to turn your TV on.

Notes:

- If your TV does not turn on, press the Main power button on the TV then press the POWER button again.
- You can also turn on your TV by pressing any of the following buttons;
 - the CHANNEL V/A button
 - the Number buttons
 - the TV/VIDEO button

2. Select a PR channel.

- **Up/ down selection**
Press CHANNEL V/A.

■ Direct selection

1. Repeatedly press the **-/-** button to select the desired mode.

- : 1-digit mode

To select a channel with a 1-digit number.

- - : 2-digit mode

To select a channel with a 1-digit number or a 2-digit number.

2. Press the Number buttons to select a channel.

For 1-digit mode:

(example)
Channel 6 → Press 6.

For 2-digit mode:

(example)
Channel 6 → Press 0, 6.
Channel 16 → Press 1, 6.

- When you want to select channel AV, press 0 in 1-digit mode or 00 in 2-digit mode.

Viewing a Television Programme

■ Channel Scan selection

You can search for the channel you want to view while scanning all of the channels that can be viewed on this TV.

1. Press **CHANNEL SCAN**.

Channels will be scanned in channel No. order.

2. When the channel that you want to view appears, press **CHANNEL SCAN** again before scanning for the next channel begins.

Note:

- Up/down and Channel Scan selections cannot be selected for channels to which the Skip has been set to YES. (See "Skip" on page 11.)

If the colour is abnormal:

Repeatedly press the **COLOUR SYSTEM** button to select the appropriate colour system. For details, see "Colour System" on page 15.

3. Press **VOLUME +/-** to adjust the sound.

To temporarily render the sound inaudible:

- Press the **MUTING** button.
- To return the sound, press the **MUTING** button again.

If the sound is abnormal:

Repeatedly press the **SOUND SYSTEM** button to select the appropriate sound system. For details, see "Sound System" on page 15.

4. To turn your TV off, press **POWER**.

Note:

- We recommend that you press the Main power button on the TV to turn the main power off if you do not plan to use your TV for a long time or if you wish to save energy.

Using the front panel buttons on the TV

1. Press **CHANNEL V/A** to turn your TV on.

Note:

- If your TV does not turn on, press the Main power button and then press the **CHANNEL V/A** button again.

2. Press **CHANNEL V/A** to select a channel.

3. Press **VOLUME +/-** to adjust the sound.

4. To turn your TV off, press the **Main power button** to turn the main power off.

For AV-A14M2 and AV-A14T2: The **POWER/ON TIMER** lamp goes off.

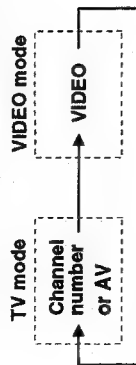
For other models: The **POWER lamp** goes off.

- If you press the Main power button again, your TV turns on immediately. Step 1 is no longer required.

Viewing Images from an External Device

You can view images from VCRs or other external devices connected to your TV.

1. Press **TV/VIDEO** to select the **VIDEO** mode.



TV mode:

This mode is for viewing TV programmes. Press the **TV/VIDEO** button, or press the **CHANNEL/V/A** button, or press the number buttons to return to this mode.

To view images from a VCR connected to the TV with only an aerial cable:

Your VCR must be preset to the channel **AV** of this TV.

Thoroughly read the manual of your VCR, and preset your VCR to the channel **AV** using the Manual Channel Preset function on page 9.

As a result, you can view images from your VCR when you select the channel **AV** in the **TV** mode.

If the colour is abnormal:

Repeatedly press the **COLOUR SYSTEM** button to select the appropriate colour system. For details, see "Colour System" on page 15.

To select the VIDEO mode using the front control buttons on the TV:

When not using the remote control, you can select the **VIDEO** mode using the **MENU** buttons on the TV.

1. Repeatedly press the **MENU** button on the TV to select **INPUT** from "MENU 1" menu.

2. Press the **MENU +** button on the TV.

TV mode changes to **VIDEO** mode.

Note:

- For details, see "Menu operations using the front control buttons on the TV" on page 21.

Sound and Picture

Colour System

If the colour is abnormal, select the appropriate colour system. Each press of the **COLOUR SYSTEM** button changes the colour system as follows.

In TV mode (channel 1 to 99 and AV):

<AV-A14M2/AV-K14M2/AV-A21M2/AV-K21M2>

→ **AUTO** → **PAL** → **SECAM** → **NTSC4.43** ← **NTSC3.58** ←

<AV-A14T2/AV-K14T2/AV-A21T2/AV-K21T2>

→ **AUTO** → **PAL** → **SECAM**

In VIDEO mode:

→ **AUTO** → **PAL** → **SECAM** → **NTSC4.43** ← **NTSC3.58** ←

AUTO:

Automatic colour system selection.

Notes:

- For the colour systems in each country or region, see the table "The Broadcasting Systems of Each Country or Region" on page 10.
- If the colour is abnormal even though you selected **AUTO**, change the appropriate colour system manually.

Sound System

If the sound is abnormal, select the appropriate sound system. Each press of the **SOUND SYSTEM** button changes the sound system as follows.

<AV-A14M2/AV-K14M2/AV-A21M2/AV-K21M2>

→ **B/G** → **I** → **D/K** → **M**

<AV-A14T2/AV-K14T2/AV-A21T2/AV-K21T2>

→ **B/G** → **I** → **D/K**

Notes:

- For the sound systems in each country or region, see the table "The Broadcasting Systems of Each Country or Region" on page 10.
- You cannot select any sound system when in **VIDEO** mode.

Picture Mode

You can select one of three picture adjustment modes.

Repeatedly press the **PICTURE MODE** button to select the desired mode.

BRIGHT:

Heightens contrast and sharpness.

STANDARD:

Standardizes picture adjustments.

SOFT:

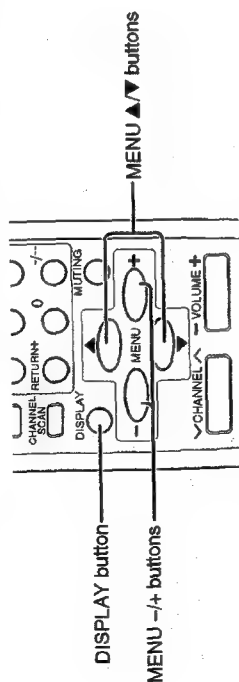
Softens contrast and sharpness.

Note:

- Pressing the **PICTURE MODE** button returns all the picture settings in the "MENU 3" menu to their default settings.

Picture Adjustment

You can adjust the picture as you like.



- For details on menu operations using the front control buttons on the TV, see "Menu operations using the front control buttons on the TV" on page 21.

1. Press **MENU** $\blacktriangle/\blacktriangledown$ to display a menu.
2. Press **MENU** $\blacktriangle/\blacktriangledown$ repeatedly to display the desired menu.

Display the "MENU 3" menu.

MENU 3	
TINT	3
COLOUR
BRIGHT
CONT.
SHARP
SELECT BY $\blacktriangle/\blacktriangledown$	EXIT BY \rightarrow
OPERATE BY \rightarrow	DISP. BY \rightarrow

3. Press **MENU** $\blacktriangle/\blacktriangledown$ to select an item and press **MENU** \rightarrow to adjust it.

-	Item	+
Reddish	TINT (tint)	Greenish
Lighter	COLOUR (colour depth)	Deeper
Darker	BRIGHT (brightness)	Brighter
Lower	CONT. (contrast)	Higher
Softer	SHARP (sharpness)	Sharper

- Note:**
- TINT (tint) is displayed only when viewing images from NTSC3.58 or NTSC4.43 colour systems.

4. Press **DISPLAY** to turn the display off.

Other Features

Display

You can continuously display the current channel number or VIDEO mode on the screen.

Press the **DISPLAY** button.

To turn the display off, press the **DISPLAY** button again.

- Note:**
- When selecting a channel or VIDEO mode with no input signal, indication of selected channel or VIDEO mode becomes fixed on the screen.

Off Timer

You can set this TV to turn off automatically within a specified period of time.

Repeatedly press the **OFF TIMER** button to select the period of time.

- You can set the period of time a maximum of 120 minutes in 10 minute increments.
- 1 minute before the Off Timer turns off the TV, "GOOD NIGHT!" displays.

To display the remaining time:
Press the **OFF TIMER** button once.

To cancel the Off Timer:
Press the **OFF TIMER** button to return the period of time to 0.

- Note:**
- The Off Timer will not turn off the TV's main power.

Return +

By setting a channel to "Return channel", you can return to that channel with one touch.

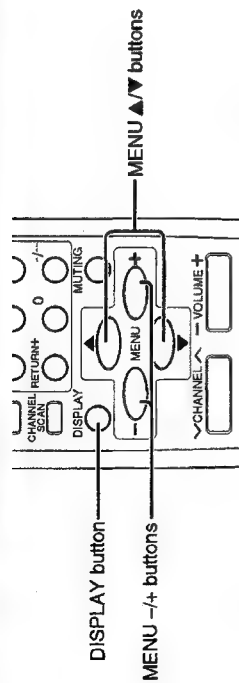
1. Press **CHANNEL V/A** or the **Number** buttons to select a channel to set to "Return channel".
2. Press **RETURN +** for more than 3 seconds continuously. "RETURN PLUS PROGRAMMED!" appears.

3. When viewing another channel, press **RETURN +**. The channel changes to the channel set for "Return channel".

To cancel the channel set for "Return channel":
Press the **RETURN +** button for more than 3 seconds continuously.
• "RETURN PLUS CANCELLED!" appears.

- Notes:**
- When you turn the TV off, the "Return channel" setting will be canceled.
 - When you press the **RETURN +** button while viewing the channel set for "Return channel", the channel changes to the previously viewed channel.
 - When you press the **RETURN +** button while in a VIDEO mode, the mode switches to TV mode. To return to the channel set for "Return channel", press the **RETURN +** button again.

When there is no setting for "Return channel":
When you press the **RETURN +** button, the channel changes to the previously viewed channel.



- For details on menu operations using the front control buttons on the TV, see "Menu operations using the front control buttons on the TV" on page 21.

Blue Back

You can mute the sound and change the picture into a blue screen while no signals come into the TV, or when the input signals are unstable.

1. Repeatedly press MENU Δ/∇ to display the "MENU 2" menu, and press MENU Δ/∇ to select BLUE BACK.

MENU	2	OFF
AUTO SHUTOFF	PR 1	0:00
ON TIMER		OFF
BLUE BACK		OFF
PROGRAM BY \rightarrow		EXIT BY \rightarrow
SELECT BY ∇/Δ		OPERATE BY \rightarrow
		DISP. \rightarrow

2. Press MENU Δ/∇ to select "ON" or "OFF."

ON:

Activates the Blue Back.

OFF:

Cancels the Blue Back.

Notes:

- To view a broadcast even when the reception signal is poor, set the Blue Back to OFF.
- Even when the Blue Back is set to OFF the sound may not be audible.
- The Blue Back function does not operate in VIDEO mode

On Timer

Your TV will automatically turn on and tune into the channel you want after a certain period of time you have specified.

1. Repeatedly press MENU Δ/∇ to display the "MENU 2" menu, and Press MENU Δ/∇ to select ON TIMER.

MENU	2	OFF
AUTO SHUTOFF	PR 1	0:00
ON TIMER		OFF
BLUE BACK		OFF
PROGRAM BY \rightarrow		EXIT BY \rightarrow
SELECT BY ∇/Δ		OPERATE BY \rightarrow
		DISP. \rightarrow

2. Press MENU Δ/∇ to select a channel you want to view when the TV turns on.

Note:

- You cannot select the channel AV, the VIDEO modes, and the channels for which the Skip is set (See "Skip" on page 11).

3. Press VOLUME Δ/∇ to select the period of time after which you want to turn on the TV.

For AV-A14M2 and AV-A14T2:

The POWER/ON TIMER lamp changes from green to red and the On Timer starts.

For other models:

The ON TIMER lamp lights and the On Timer starts.

- Each time you press the button, the period of time changes in 15 minute intervals (up to 12 hours).

MENU	3	OFF
AUTO SHUTOFF	PR 3	11:00
ON TIMER		OFF
BLUE BACK		OFF
PROGRAM BY \rightarrow		EXIT BY \rightarrow
SELECT BY ∇/Δ		OPERATE BY \rightarrow
		DISP. \rightarrow

3. Press DISPLAY to turn the display off.

To cancel the On Timer:

Press the VOLUME Δ/∇ button to return the period of time to "0:00".

4. Press DISPLAY to turn the display off.
5. Press POWER to turn the TV off.

POWER/ON TIMER lamp or ON TIMER lamp will stay lit.

Notes:

- If you turn off the TV's main power by pressing the Main power button, the On Timer setting is canceled.
- If you do not turn off the TV after starting the On Timer, once the time set for the On Timer is reached, the channel will automatically switch to the channel set for the On Timer.

While the On Timer is operating:
The POWER/ON TIMER lamp or ON TIMER lamp lights.

When the time set for the On Timer is reached:

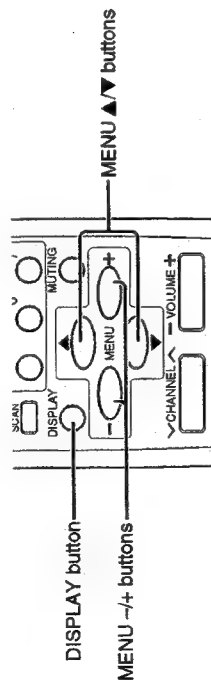
The TV automatically turns on and the channel set for the On Timer is displayed.

Notes:

- For safety reasons the TV will automatically turn off if no operations are made within approximately two hours after the TV is turned on with the On Timer.
- The Off Timer and Auto Shutoff have priority over the On Timer.

Auto Shutoff

You can set your TV to turn off if no signals are received for about 15 minutes or longer after the end of a broadcast.



- For details on menu operations using the front control buttons on the TV, see "Menu operations using the front control buttons on the TV" on page 21.

- Press MENU Δ/∇ to display the "MENU 2" menu, and press MENU Δ/∇ to select AUTO SHUTOFF.

MENU	2
✓ AUTO SHUTOFF	OFF
ON TIMER	PR 1 0:00
BLUE BACK	OFF
SELECT BY $\nabla \Delta$	EXIT BY Δ/∇
OPERATE BY \rightarrow	DISP/AN

- Press MENU Δ/∇ to select "ON" or "OFF".

MENU	2
✓ AUTO SHUTOFF	ON
ON TIMER	PR 1 0:00
BLUE BACK	OFF
SELECT BY $\nabla \Delta$	EXIT BY Δ/∇
OPERATE BY \rightarrow	DISP/AN

ON:

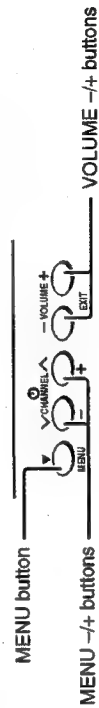
Activates the Auto Shutoff.

OFF:

Cancels the Auto Shutoff.

Menu operations using the front control buttons on the TV

You can operate functions in menus using the front control buttons on the TV without having to use the remote control.



- Press MENU to display the menu.

If the desired menu is not displayed:

Repeatedly press the MENU button until the desired menu is displayed.

- Repeatedly press MENU to select the desired function or item.

To select a function or item above the currently selected function or menu:

Repeatedly press the MENU button to proceed to another menu, and then repeatedly press the MENU button again to return to the original menu. Then select the function or item.

- Press MENU Δ/∇ or VOLUME Δ/∇ to carry out the desired operation.

- For details, see the description for the respective function.

- Press VOLUME Δ/∇ to turn the menu display off.

If the sub-menu is displayed:

The sub-menu cannot be turned off by the VOLUME Δ/∇ button when it is displayed. Follow the procedure below to turn the sub-menu display off.

- Press MENU to select EXIT.

MANUAL	NO
FINE	B/G
SKIP	
SOUND SYSTEM	
EXIT	
SELECT BY $\nabla \Delta$	PR 1 VL
PROGRAM BY \rightarrow	EXIT BY
EXIT	BY VOL Δ/∇
	DISP/AN

- Press VOLUME Δ/∇ to turn the sub-menu display off.

Troubleshooting

Important: Review all the instructions in this manual.

Problem	Action
Cannot turn TV on	Press the Main power button (see p.6). Insert the power plug in an AC outlet.
No picture nor sound	Press the TV/VIDEO button to select the correct mode (see p.14). Check the aerial connections.
Remote control inoperable	Replace the batteries (see p.6).
The TV turns on suddenly.	The TV will automatically turn on when the On Timer is operated (see p.19).
The TV turns off suddenly.	The TV will automatically turn off in the following cases. <ul style="list-style-type: none"> • When the Off Timer or Auto Shutoff is operated (see p.17 and p.20). • When no operations are made within approximately two hours after the TV was turned on with the On Timer (see p.19).
Abnormal sound	Select the appropriate sound system (see p.15).
Abnormal colour	Adjust the colour and brightness (see p.16). Select the appropriate colour system (see p.15). Set the Picture mode to STANDARD (see p.15).
Lines or streaks in picture (interference)	Move the components apart until the interference disappears. Reposition the aerial.
Spotted picture (crosstalk)	Move the aerial away from the source of interference. Replace the aerial cable with a coaxial cable, which is less prone to interference.
Double picture (ghost)	Reposition the aerial. Replace with an aerial with good directionality.
Snowy picture (image noise)	Check the aerial connection and aim it correctly. Replace or repair the aerial.
The TV channel changes suddenly.	The channel will automatically be changed when the On Timer operates (see p.19).
The screen turns blue	Is the Blue Back set to ON (see p.18) ?

The following are normal occurrences and are not the result of TV malfunctions:

- When you touch the CRT surface, you might feel a slight charge of static electricity. This is because the CRT contains static electricity; it does not affect the human body.
- Your TV may emit a crackling sound due to a sudden change in temperature. There is no problem unless the picture or sound is abnormal.
- When a still bright image (of a white dress, for example) appears on the screen, the image may be coloured. This problem occurs in all CRTs, and when the bright image disappears, the colouration also disappears.
- This TV is equipped with a microcomputer that may operate abnormally due to interference from external devices. If this happens, press the Main power button to turn the main power off and disconnect the power plug from the AC outlet. Then, reconnect the power plug to the AC outlet and press the Main power button again.

AV-A14M2(L) AV-A14M2(L)-A AV-A14T2(L) AV-A1432(L)-SC AV-A14M2(L)-HK AV-A14M2(L)U AV-A14T2(L)-A AV-1411EE(L) STANDARD CIRCUIT DIAGRAM

NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the Δ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2. SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- | | |
|---|--|
| (1) Input signal | : PAL Colour bar signal |
| (2) Setting positions of each knob/button and variable resistor | : Original setting position when shipped |
| (3) Internal resistance of tester | : DC 20k Ω /V |
| (4) Oscilloscope sweeping time | : H \Rightarrow 20 μ S/div
: V \Rightarrow 5mS/div
: Others \Rightarrow Sweeping time is specified |
| (5) Voltage values | : All DC voltage values |
- * Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3. INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209 \rightarrow R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

(1) Resistors

● Resistance value

- | | |
|---------|-----------------|
| No unit | : [Ω] |
| K | : [K Ω] |
| M | : [M Ω] |

● Rated allowable power

- | | |
|---------------|----------------|
| No indication | : 1/4[W] |
| Others | : As specified |

● Type

- | | |
|---------------|-----------------------------|
| No indication | : Carbon resistor |
| OMR | : Oxide metal film resistor |
| MFR | : Metal film resistor |
| MPR | : Metal plate resistor |
| UNFR | : Uninflamable resistor |
| FR | : Fusible resistor |

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2) Capacitors

● Capacitance value

- | | |
|-------------|--------------|
| 1 or higher | : [pF] |
| less than 1 | : [μ F] |

● Withstand voltage

- | | |
|---------------|----------------------------|
| No indication | : DC50[V] |
| Others | : DC withstand voltage [V] |
| AC indicated | : AC withstand voltage [V] |

* Electrolytic Capacitors

47/50[Example]: Capacitance value [μ F]/withstand voltage[V]

● Type

- | | |
|---------------|-------------------------------------|
| No indication | : Ceramic capacitor |
| MY | : Mylar capacitor |
| MM | : Metalized mylar capacitor |
| PP | : Polypropylene capacitor |
| MPP | : Metalized polypropylene capacitor |
| MF | : Metalized film capacitor |
| TF | : Thin film capacitor |
| BP | : Bipolar electrolytic capacitor |
| TAN | : Tantalum capacitor |

(3) Coils

- | | |
|---------|----------------|
| No unit | : [μ H] |
| Others | : As specified |

(4) Power Supply

- | | |
|--|-----------|
| | : B1 |
| | : B2(12V) |
| | : 9V |
| | : 5V |

* Respective voltage values are indicated

(5) Test point

- | | |
|--|---------------------------|
| | : Test point |
| | : Only test point display |

(6) Connecting method

- | | |
|--|-------------------------|
| | : Connector |
| | : Wrapping or soldering |
| | : Receptacle |

(7) Ground symbol

- | | |
|--|---------------------------------|
| | : LIVE side ground |
| | : ISOLATED(NEUTRAL) side ground |
| | : EARTH ground |
| | : DIGITAL ground |

5. NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\perp) side GND and the ISOLATED(NEUTRAL) : (\downarrow) side GND. Therefore, care must be taken for the following points.

- (1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2) Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE

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SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR

IC

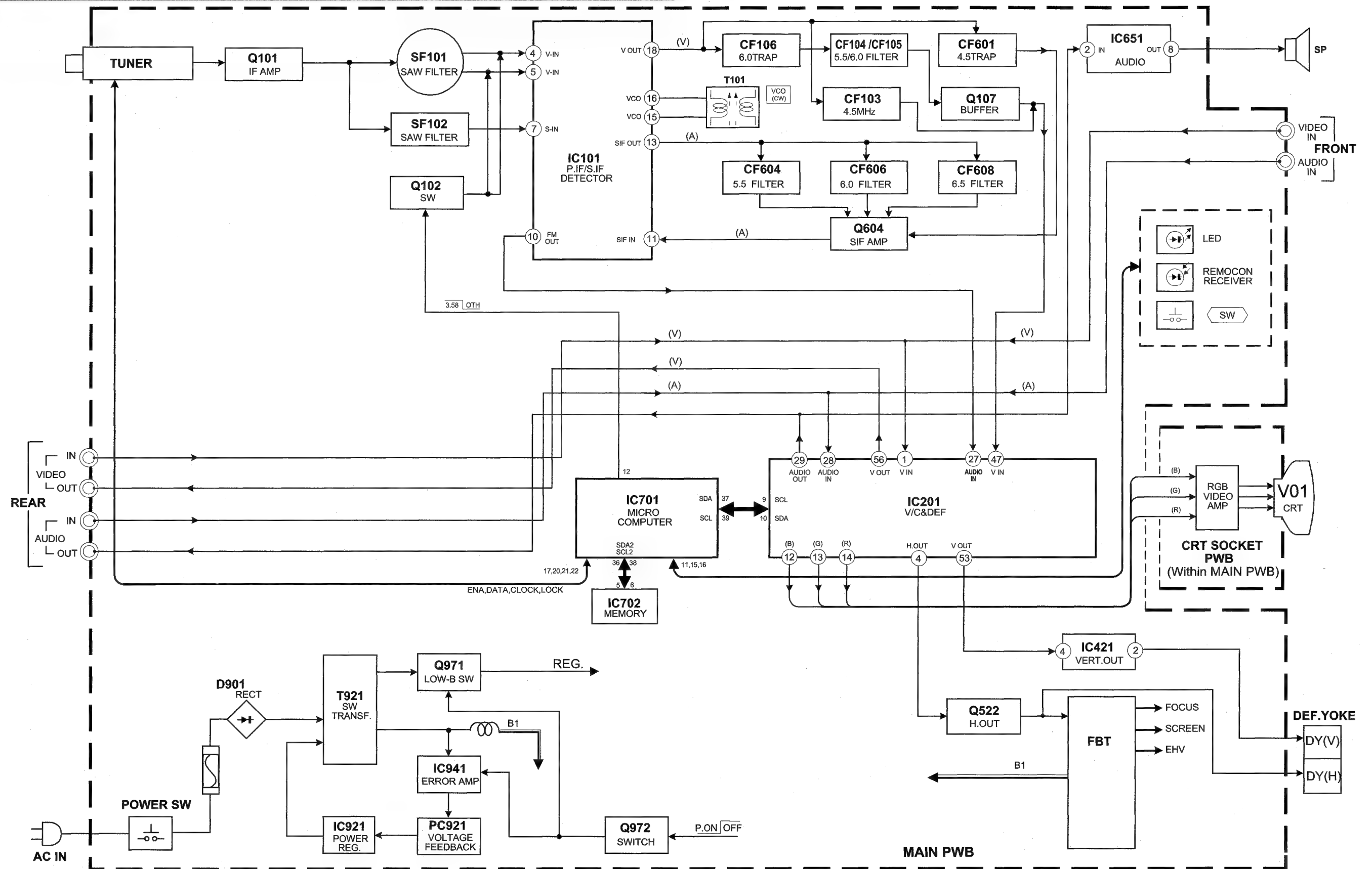
BOTTOM VIEW	FRONT VIEW			TOP VIEW

CHIP IC

TOP VIEW		

BLOCK DIAGRAM I

[AV-A14M2(L) / AV-A14M2(L)-HK / AV-A14M2(L)-A / AV-A14M2(L)U]

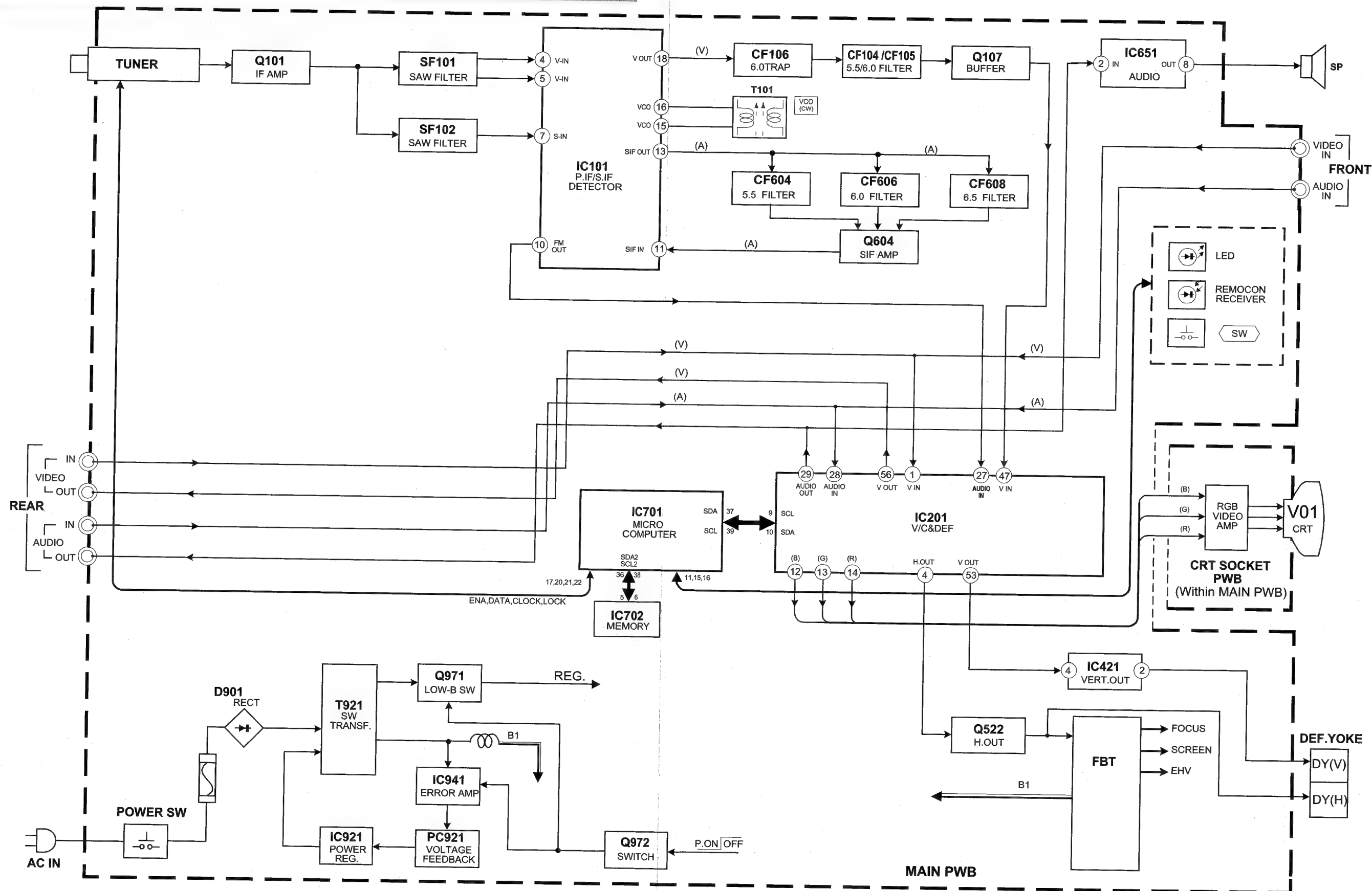


BLOCK DIAGRAM II

[AV-A14T2(L) / AV-A14T2(L)-A / AV-A1432(L)-SC / AV-1411EE(L)]

AV-A14T2
AV-A1432
AV-1411EE

AV-A14T2
AV-A1432
AV-1411EE

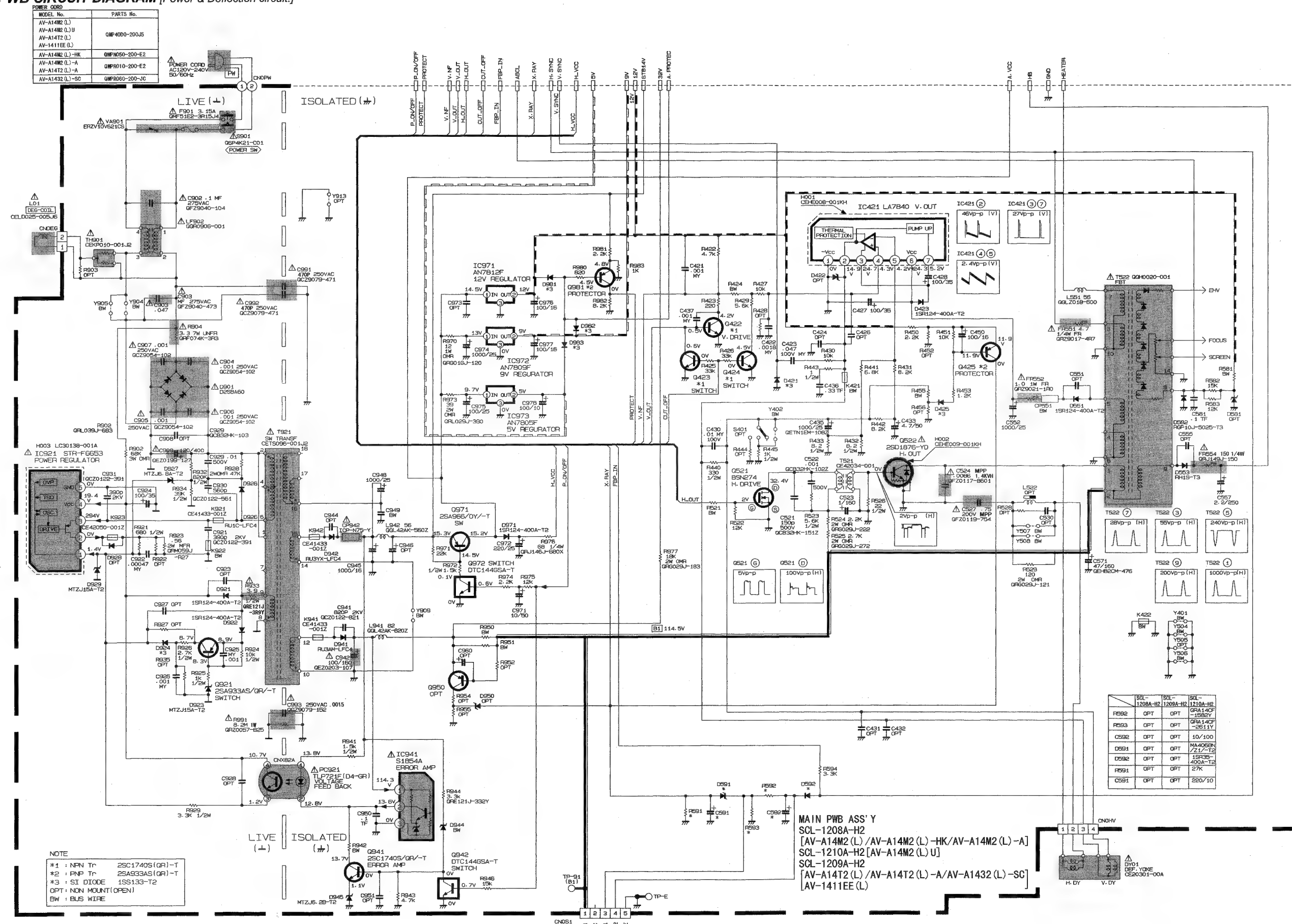


CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM [Power & Deflection circuit.]

AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE

AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE



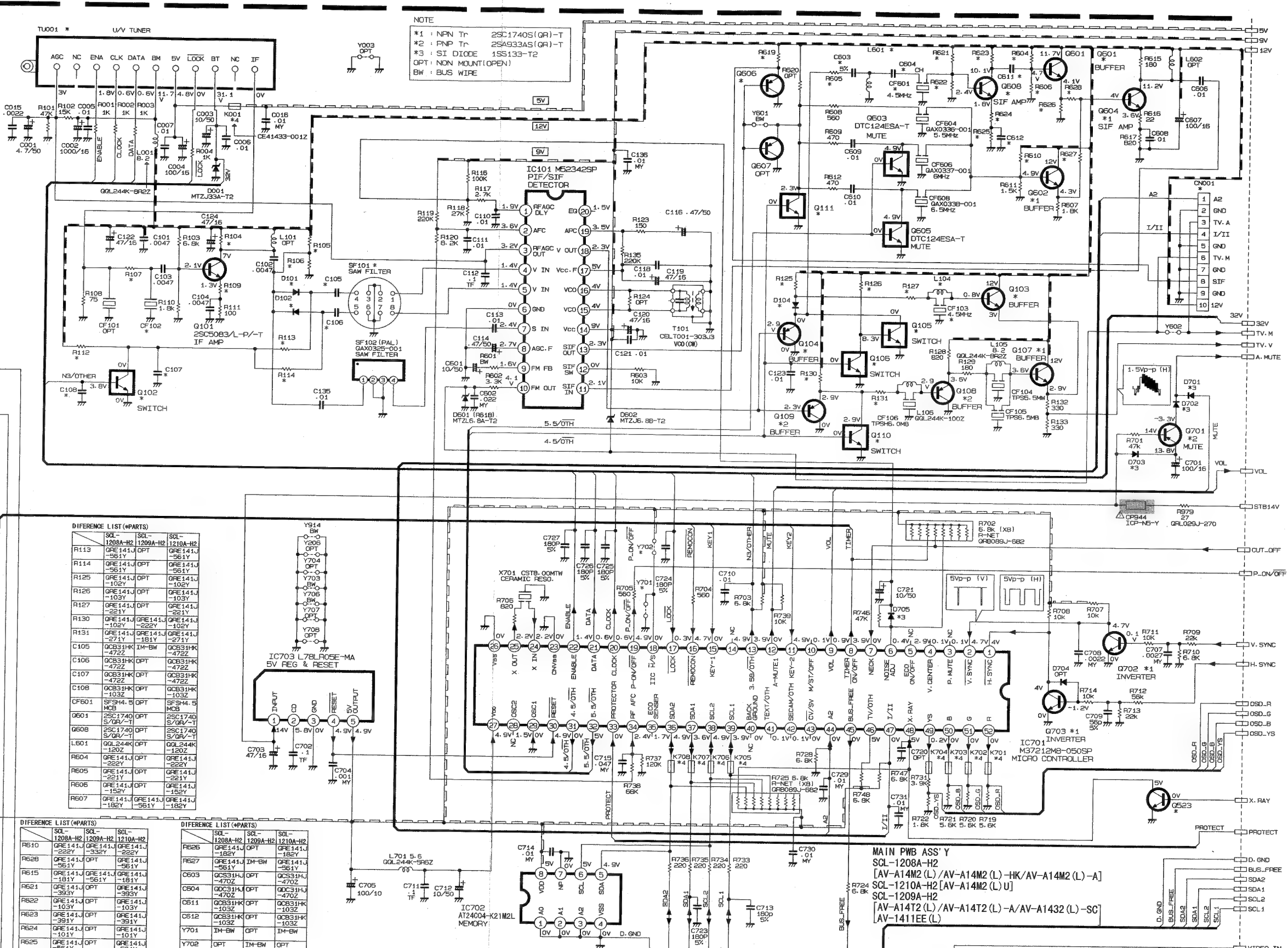
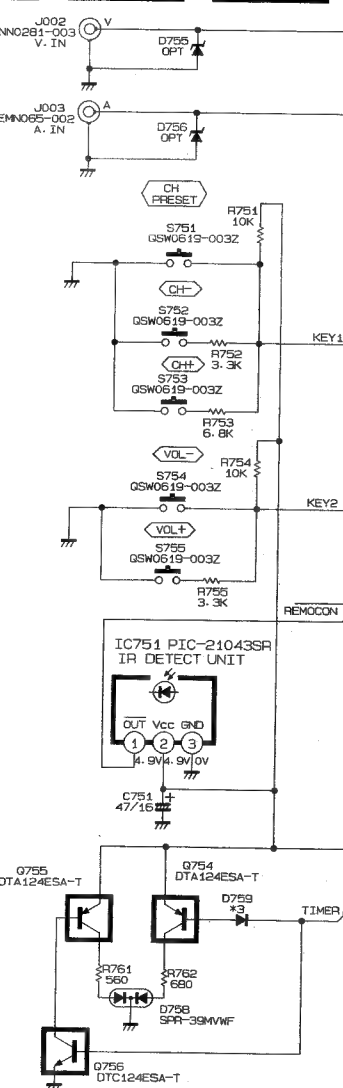
MAIN PWB CIRCUIT DIAGRAM [Tuner, Micro Computer & Front control circuit]

AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE

AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE

DIFFERENCE LIST (#PARTS)

SOL-1208A-H2	SOL-1209A-H2	SOL-1210A-H2
TU001	CEM574	CEM574
CF102	QAX0358	QAX0358
CF103	QAX0358	QAX0358
SF101	QAX0323	QAX0323
G102	DTC124	DTC124
G103	2SC1740	2SC1740
G104	2SA933A	2SA933A
G105	DTC124	DTC124
G106	DTC124	DTC124
G110	DTC124	DTC124
G111	DTC124	DTC124
D101	1SS85	1SS85
D102	1SS85	1SS85
D104	1SS133	1SS133
L104	QGL244K	QGL244K
R104	QRE141J	QRE141J
R105	QRE141J	QRE141J
R106	QRE141J	QRE141J
R107	QRE141J	QRE141J
R109	IM-BW	IM-BW
R112	QRE141J	QRE141J
G523	OPT	OPT
R519	OPT	OPT
G505	OPT	OPT
CND01	OPT	OPT



SOL-1208A-H2	SOL-1209A-H2	SOL-1210A-H2
R510	QRE141J	QRE141J
R528	QRE141J	QRE141J
R515	QRE141J	QRE141J
R521	QRE141J	QRE141J
R522	QRE141J	QRE141J
R523	QRE141J	QRE141J
R524	QRE141J	QRE141J
R525	QRE141J	QRE141J

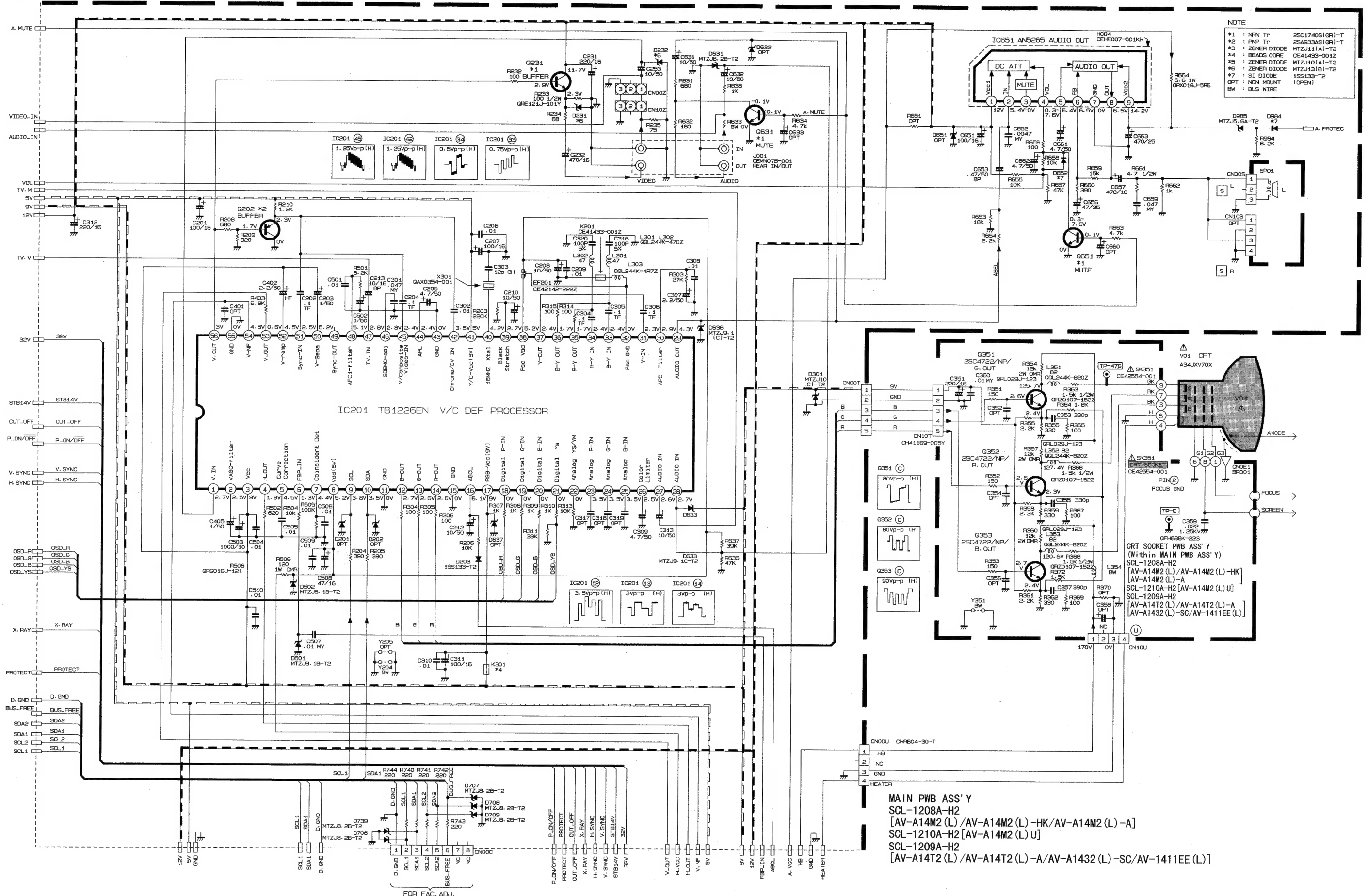
SOL-1208A-H2	SOL-1209A-H2	SOL-1210A-H2
R113	QRE141J	QRE141J
R114	QRE141J	QRE141J
R125	QRE141J	QRE141J
R126	QRE141J	QRE141J
R127	QRE141J	QRE141J
R130	QRE141J	QRE141J
R131	QRE141J	QRE141J
C105	QCB31HK	QCB31HK
C107	QCB31HK	QCB31HK
C108	QCB31HK	QCB31HK
CF501	SF544	SF544
G501	2SC1740	2SC1740
G502	2SC1740	2SC1740
G503	2SC1740	2SC1740
G504	2SC1740	2SC1740
G505	2SC1740	2SC1740
G506	2SC1740	2SC1740
G507	2SC1740	2SC1740

SOL-1208A-H2	SOL-1209A-H2	SOL-1210A-H2
R113	QRE141J	QRE141J
R114	QRE141J	QRE141J
R125	QRE141J	QRE141J
R126	QRE141J	QRE141J
R127	QRE141J	QRE141J
R130	QRE141J	QRE141J
R131	QRE141J	QRE141J
C105	QCB31HK	QCB31HK
C107	QCB31HK	QCB31HK
C108	QCB31HK	QCB31HK
CF501	SF544	SF544
G501	2SC1740	2SC1740
G502	2SC1740	2SC1740
G503	2SC1740	2SC1740
G504	2SC1740	2SC1740
G505	2SC1740	2SC1740
G506	2SC1740	2SC1740
G507	2SC1740	2SC1740

AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE

AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE

MAIN PWB CIRCUIT DIAGRAM [Picture, CRT & Audio circuit]

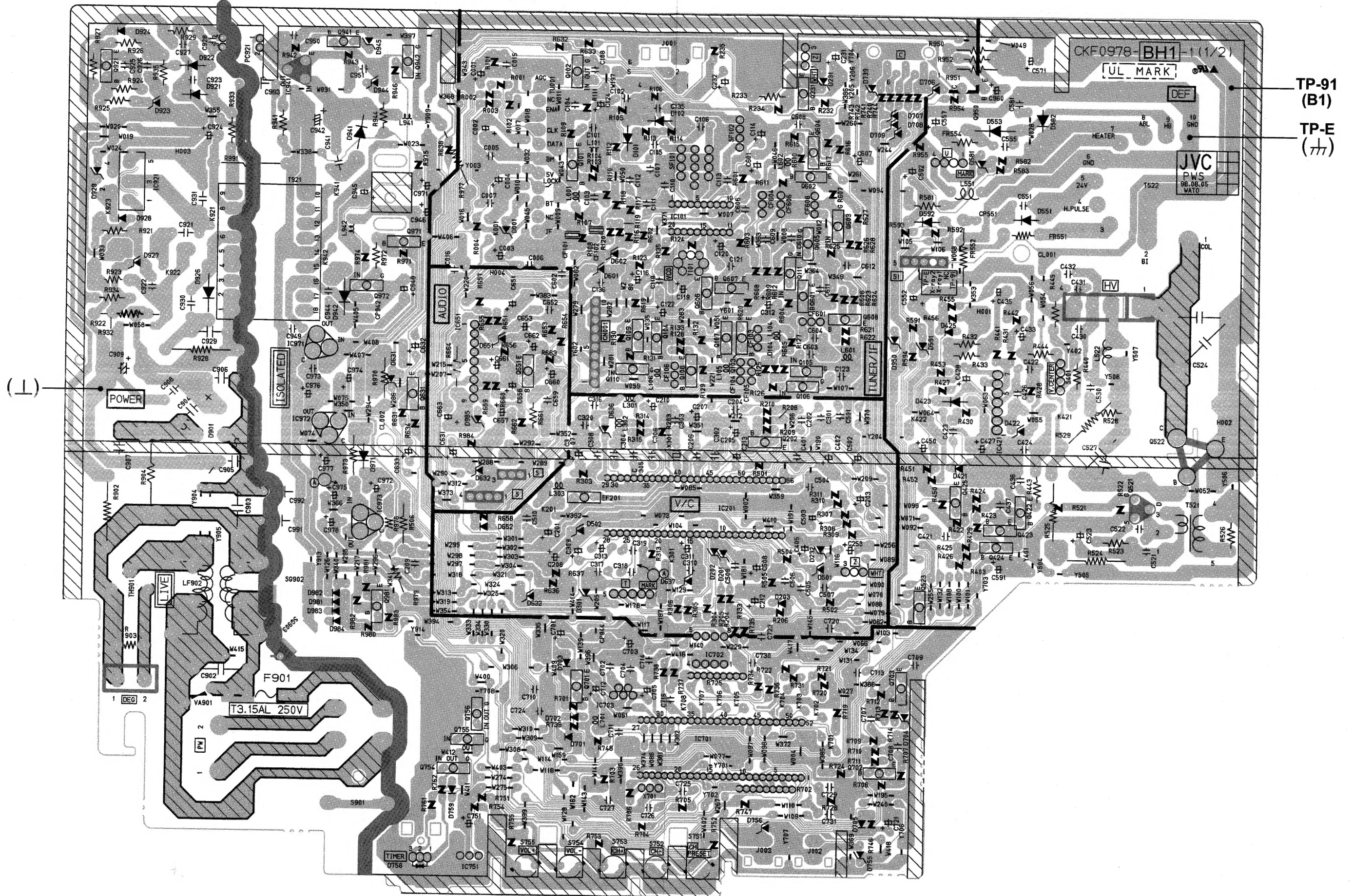


PATTERN DIAGRAMS
MAIN PWB PATTERN

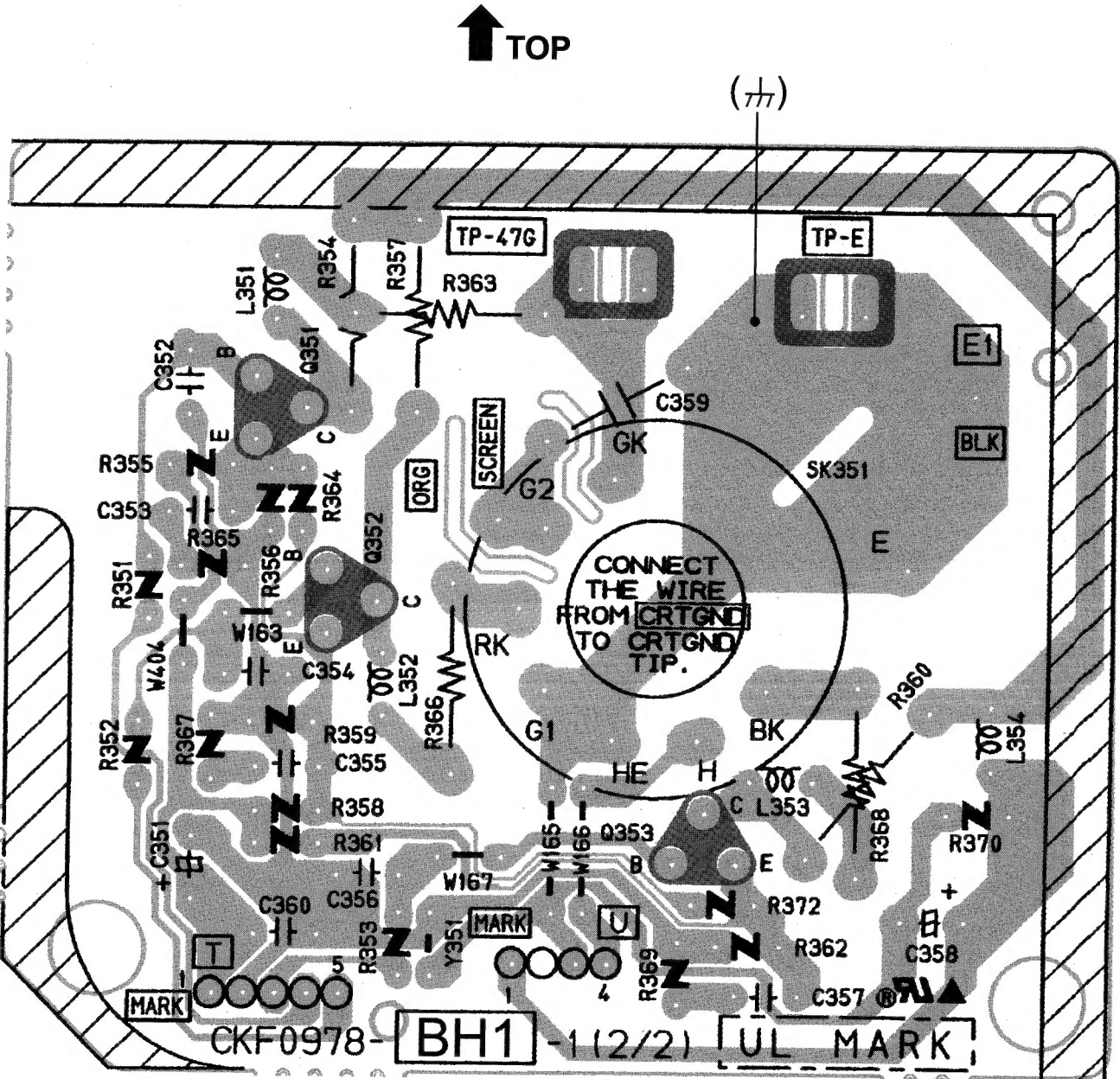
AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE

AV-A14M2
AV-A14T2
AV-A1432
AV-1411EE

↓
FRONT



CRT SOCKET PWB PATTERN [Within MAIN PWB]



ADDITION

Only AV-A14M2(L)U

HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit shown in Fig. 1.

This circuit shall be checked to operate correctly.

2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

- (1) Turn the POWER SW ON.
- (2) As shown in Fig.1, set the resistor (between [S1] connector [3] & [4]).
- (3) Make sure that the screen picture disappears.
- (4) Temporarily unplug the power cord.
- (5) Remove the resistor (between [S1] connector [3] & [4]).
- (6) Again plug the power cord, make sure that the normal picture is displayed on the screen.

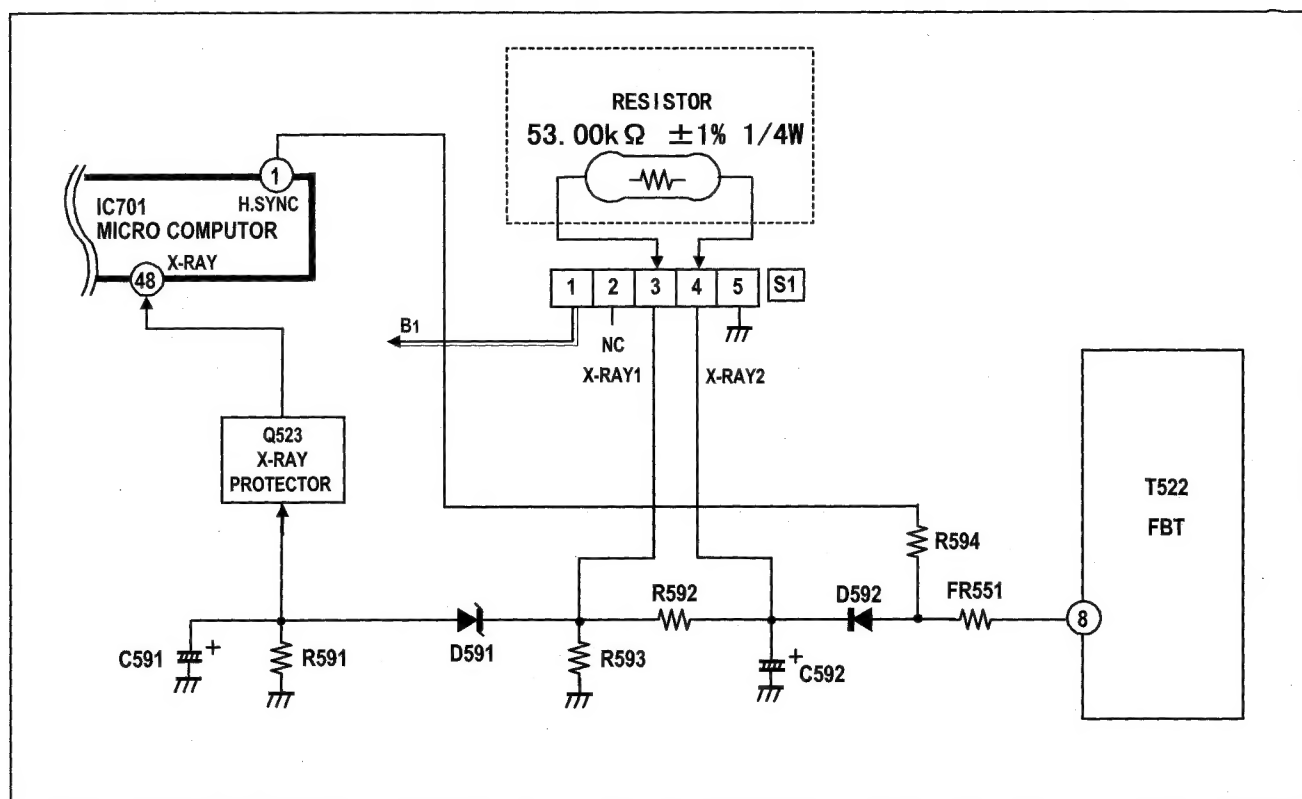


Fig. 1